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(54) Title: CRYSTAL STRUCTURE OF A DEACETYLASE AND INHIBITORS THEREOF

(57) Abstract: The present invention provides three-dimensional structural information from the hyperthermophilic bacterium Aquifex aeolicus which is a histone deacetylase-like protein (HDLP). HDLP shares 35.2% amino acid sequence identity with human histone deacetylase (HDAC1). The present invention further provides three-dimensional structural information of HDLP bound by inhibitor molecules. The three-dimensional structural information of the present invention is useful to design, isolate and screen deacetylase inhibitor compounds capable of inhibiting HDLP, HDAC family members and HDLP-related molecules. The invention also relates to nucleic acids encoding a mutant HDLP which facilitates the determination of the three-dimensional structure of HDLP in the presence of a zinc atom.

CRYSTAL STRUCTURE OF A DEACETYLASE AND INHIBITORS THEREOF

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This application claims priority of U.S. Provisional Application No. 60/152,753, filed September 8, 1999, the contents of which are hereby incorporated by reference.

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This invention has been made with government support under National Institutes of Health Grant No. RO1 CA-65698. Accordingly, the U.S. Government may have certain rights in the invention.

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Throughout this application, various publications are referenced by author, date and citation. The disclosures of these publications in their entireties are hereby incorporated by reference into this application in order to more fully describe the state of the art as known to those skilled therein as of the date of the invention described and claimed herein.

Introduction

The present invention relates to a histone deacetylase homologue from the hyperthermophilic bacterium Aquifex aeolicus, HDLP (histone deacetylase like protein; also known as AcuCl), which shares 35.2 % sequence identity with human histone deacetylase (HDACl), that can be co-crystallized with an inhibitory ligand, and more particularly, to the detailed crystallographic data obtained from said co-crystallization which is disclosed herein. The invention also relates to methods of using the crystal structure and x-ray crystallographic coordinates of the apo-HDLP and

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inhibitor-bound HDLP to design, isolate and screen compounds which bind to and inhibit the active site of HDLP and HDLP-related proteins, such as those proteins belonging to the HDAC family, including HDAC1.

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Background of the Invention

The reversible modification of histones by acetylation is associated with changes in nucleosome conformation and chromatin structure, and plays an important role in the regulation of gene expression (reviewed in Davie and Chadee, 1998, J. Cell Biochem. Suppl. 30-31:203-213). The histone acetylase and deacetylase enzymes that carry out these modifications are involved in many cellular processes such as cell cycle progression and differentiation, and their deregulation is associated with several types of human cancer (reviewed in Kouzarides, 1999, Curr. Opin. Genet. Dev. 2:40-48; Hassig et al., 1997, Chem. Biol. 4:783-789; Fenrick and Heibert, 1998, J. Cell. Biochem. Suppl. 30-31:194-202).

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Recently, several experimental antitumor compounds, such as trichostatin A (TSA), trapoxin, suberoylanilide hydroxamic acid (SAHA), and phenylbutyrate have been shown to act, at least in part, by inhibiting histone deacetylases. Richon et al., 1998, Proc. Natl. Acad. Sci., USA 95:3003-3007; Yoshida et al., 1990, J. Biol. Chem. 265:17174-17179; Kijima et al., 1993, J. Biol. Chem. 268:22429-22435. Additionally, diallyl sulfide and related molecules (Lea et al., 1999, Int. J. Oncol. 2:347-352), oxamflatin (Kim et al., 1999, Oncogene 15:2461-2470), MS-27-275, a synthetic benzamide derivative (Saito et al., 1999, Proc. Natl. Acad. Sci. 96:4592-4597),

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butarate derivatives (Lea and Tulsyan, 1995, Anticancer Res. 15:879-883), FR901228 (Nokajima et al., 1998, Exp. Cell Res. 241:126-133), depudecin (Kwon et al., 1998, Proc. Natl. Acad. Sci. USA 95:3356-3361) and m-carboxysinnamic acid bishydroxamide (CBHA; Richon et al., Proc. Natl. Acad. Sci. 5 USA 95:3003-3007) have been shown to inhibit histone deacetylases. In vitro, these compounds can inhibit the growth of fibroblast cells by causing cell cycle arrest in the G1 and G2 phases (Richon et al., 1996, Proc. Natl. Acad. Sci. USA 93:5705-5708; Kim et al., 1999, Oncogene 10 18:2461-2470; Yoshida et al., 1995, Bioessays 17:423-430; Yoshida & Beppu, 1988, Exp. Cell. Res. 177:122-131), and can the terminal differentiation and loss of lead to transforming potential of a variety of transformed cell Richon et al., 1996, Proc. Natl. Acad. Sci. USA 15 93:5705-5708; Kim et al., 1999, Oncogene 18:2461-2470; Yoshida et al., 1987, Cancer Res. 47:3688-3691. In vivo, phenylbutyrate is effective in the treatment of acute promyelocytic leukemia in conjunction with retinoic acid. Warrell et al., 1998, J. Natl. Cancer Inst. 90:1621-1625. 20 SAHA is effective in preventing the formation of mammary tumors in rats, and lung tumors in mice. Desai et al., 1999, Proc. AACR 40: abstract #2396; Cohen et al., Cancer Res., submitted.

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Histone deacetylases catalyze the removal of acetyl groups from the ϵ -amino groups of lysine residues clustered near the N-terminus of nucleosomal histones, and this process is associated with transcriptional repression (reviewed in Struhl, 1998, *Genes Dev.* 12:599-606). Deletion of the yeast histone deacetylase gene, rpd3, or its pharmacological

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inactivation with trichostatin A reduces the transcriptional repression in a subset of promoters, such as those of Ume6-regulated genes. Kadosh & Struhl, 1998, Mol. Cell. Biol. 18:5121-5127. This is accompanied by the increased acetylation of H4 histones in the repressed promoter and its vicinity, but has no effect on histones at promoter distal regions. Kadosh & Struhl, 1998, Mol. Cell. Biol. 18:5121-5127; Rundlett et al., 1998, Nature 392:831-835.

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Histone deacetylases are recruited to specific promoters by associating with DNA-binding transcriptional repressors, either directly or through co-repressors that bridge the deacetylase to the transcriptional repressors. For example, the Mad and Ume6 repressors bind to the co-repressor Sin3A (Laherty et al., 1997, Cell 89:349-356; Hassig et al., 1997, Cell 89:341-347; Kadosh & Struhl, 1997, Cell 89:365-371), and the nuclear receptors bind N-CoR and the related SMRT co-repressors. Nagy et al., 1997, Cell 89:373-380; Alland et al, 1997, Nature 387:49-55; Heinzel et al, 1997, Nature 387:43-48.

The deregulation of histone deacetylase recruitment appears to be one of the mechanisms through which these enzymes contribute to tumorigenesis. In acute promyelocytic leukemia (APL), chromosomal translocations fuse the retinoic acid receptor- α (RAR α) to either PLZF or to PML. These fusion oncoproteins have aberrant transcriptional repression activity resulting, in part, through the recruitment of a co-repressor and, in turn, HDACs. Grignani et al, 1998, Nature 391:815-818; Lin et al., 1998, Nature 391:811-814. Treatment of PLZF-RAR α APL cells with TSA enhances their

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responsiveness to retinoic acid-induced differentiation. Grignani et al, 1998, Nature 391:815-818; Lin et al., 1998, Nature 391:811-814.

The histone deacetylases comprise a large family of 5 proteins, conserved from yeast to man, and are divided into two related classes. Class I is characterized by human HDAC1, 2, 3 (Taunton et al., 1996, Science 272:408-411; Yang et al., 1996, Proc. Natl. Acad. Sci. USA 93:12845-12850; Emiliani et al., 1998, Proc. Natl. Acad. Sci. USA 95:2795-10 2800), and yeast RPD3 (Videl & Gaber, 1991, Mol. Cell. Biol. 11:6317-6327), and class II by the human HDAC4, 5, 6 (Grozinger et al., 1999, Proc. Natl. Acad. Sci. USA 96:4868-4873; Fischle, et al., 1999, J. Biol. Chem. 274:11713-11720), and yeast HDA1 (Rundlett et al., 1996, Proc. Natl. 15 Acad. Sci. USA 93:14503-14508). The two classes share a ~390 amino acid region of sequence similarity, comprising the deacetylase core, but are divergent outside this region. The histone deacetylase genes belong to an even larger superfamily (Leipe & Landsman, 1997, Nucleic Acids Res. 20 25:3693-3697) that contains the prokaryotic utilization proteins (AcuC; 28.1% sequence identity to HDAC1), and the prokaryotic acetylpolyamine amidohydrolases (APAH; 15.0 % sequence identity to HDAC1). The enzymatic activity of AcuC is not clear, but its disruption reduces 25 the ability of B. subtilis to breakdown acetoin and utilize it as a carbon source. Grundy et al., 1993, Mol. Microbiol. 10:259-271. APAHs catalyze the deacetylation of polyamines by cleaving a non-peptide amide bond (reviewed in Leipe & Landsman, 1997, Nucleic Acids Res. 25:3693-3697). 30

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It is useful to address the questions of how HDACs and HDACrelated proteins catalyze the deacetylation of histones and how the above-referenced compounds, particularly those compounds with antitumor activity, inhibit this activity in order to better understand the mechanism of inhibition of HDACs and to facilitate discovery of additional useful compounds which may inhibit this activity. To this end, the present invention has determined the three dimensional structure of a HDAC1-like protein from the thermophilic bacterium Aquifex aeolicus, herein after HDLP. The determination of the nucleic acid coding sequence of HDLP was described by Deckert et al., 1998, Nature 392:353-358. The encoded 375 residue protein, whose sequence was determined from the nucleic acid encoding sequence, shares 35.2% amino acid sequence identity with HDAC1, deacetylates histones in vitro, and is inhibited by TSA, SAHA and several other HDAC inhibitors. The determination of the threedimensional structure of HDLP is useful in the design, identification and screening of new HDAC family inhibitory compounds which are useful for the inhibition of cell growth both in vivo and in vitro.

Summary of the Invention

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In general, it is the object of the present invention to provide detailed three-dimensional structural information for a family of proteins known as histone deacetylases (HDAC), and particularly a homologue from the hyperthermophilic bacterium Aquifex aeolicus HDLP (histone deacetylase-like protein) which shares 35.2 % sequence identity with human histone deacetylase (HDAC1). It is also an object of the present invention to provide three-

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dimensional structural information of an HDLP bound to an inhibitory compound.

In one embodiment of the invention, three-dimensional structure information is obtained from a crystal of wildtype HDLP (SEQ ID NO:1) (the nucleic acid encoding wild-type HDLP is SEQ ID NO:2). In a further embodiment of the invention, three-dimensional information is obtained from a mutant HDLP comprising two mutations (1) cysteine 75 to a serine and (2) cysteine 77 to a serine (Cys75Ser/Cys77Ser double mutant; SEQ ID NO:3) (the nucleic acid encoding HDLP Cys75Ser/Cys77Ser double mutant is SEQ ID NO:4). of invention facilitates the present mutant determination of three-dimensional structural information of HDLP bound to a zinc atom at its zinc atom-binding site.

In a preferred embodiment of the invention, the threedimensional structural information is obtained from a cocrystal of a protein-inhibitor compound complex that comprises HDLP or HDLP Cys75Ser/Cys77Ser double mutant and trichostatin A (TSA). In another preferred embodiment of the invention the three-dimensional structural information is obtained from a co-crystal of a protein-inhibitor comprises HDLP orHDLP complex that compound mutant and suberoylanilide double Cys75Ser/Cys77Ser Any HDLP or HDLP-related protein hydroxamic acid (SAHA). (e.g. HDAC) inhibitor compound that may be co-crystallized with HDLP may be used to form a co-crystal of the present invention.

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The protein crystals and protein-inhibitory complex cocrystals of the present invention diffract to a high

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resolution limit of at least equal to or greater than 4 angstrom (\mathring{A}) . In a preferred embodiment, the protein crystals and protein-inhibitory complex co-crystals of the present invention diffract to a high resolution limit of greater than 2.5 \mathring{A} .

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A crystal of the present invention may take a variety of forms, all of which are contemplated by the present invention. In a preferred embodiment, the crystal has a space group of C2 with one molecule in the asymmetric unit and with unit dimensions of a = 51.4 Å, b = 93.8 Å, 78.7 Å and $\beta = 96.9^{\circ}$ (see, e.g., Example 2, below). another preferred embodiment, the crystal has a space group of P2,2,2 with two molecules in the asymmetric unit and with unit dimensions of a=53.4 Å, b=94.4 Å, c=156.3 Å (see, e.g., Example 2, below). The HDLP structure comprises a parallel β sheet with α helices packing against both faces. At one end of the β sheet, the HDLP has a narrow, tube-like pocket formed by several well-ordered loops. The walls of the pocket are lined with hydrophobic residues and there is a zinc binding site and several polar side chains at the bottom of the pocket. The inhibitory compounds of the present invention bind in the pocket.

The three-dimensional structural information obtained from crystals of HDLP, HDLP Cys75Ser/Cys77Ser double mutant, HDLP Cys75Ser/Cys77Ser double mutant comprising a zinc atom, HDLP comprising an inhibitory compound such as TSA or SAHA, and HDLP Cys75Ser/Cys77Ser double mutant comprising an inhibitor compound such as TSA or SAHA may be employed to solve the structure of any HDLP-related protein (e.g. HDAC) crystal,

or any mutant HDLP-related protein and particularly any wild type or mutant of HDLP-related protein complexed with a ligand, including a substrate or inhibitor compound. If the crystals are in a different space group than the known structure, molecular replacement may be employed to solve the structure, or if the crystals are in the same space group, refinement and difference fourier methods may be employed. The structure of HDLP-related proteins (e.g. HDAC1) comprise no greater than a 2.0 Å root mean square deviation (rmsd) in the positions of the $C\alpha$ atoms for at least 50% or more of the amino acids of the full-length HDLP structure.

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The present invention also provides a nucleic acid molecule encoding an HDLP Cys75Ser/Cys77Ser double mutant having the amino acid sequence of SEQ ID NO:3 and the nucleic acid sequence of SEQ ID NO:4. It is also contemplated by the invention that mutations be made in HDLP-related proteins at cysteine residues, as with the Cys75Ser/Cys77Ser double mutant, in order to facilitate the determination of the structure of said proteins bound to a zinc atom. Additionally, the present invention provides expression vectors which comprise the nucleic acid molecule encoding an HDLP Cys75Ser/Cys77Ser double mutant encoded by the sequence represented by SEQ ID NO:4 operatively linked to expression control sequences.

It is another object of the present invention to provide methods for the design, identification and screening of potential inhibitor compounds of the HDLP/HDAC family. In a preferred embodiment the method for the rational design,

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identification and screening of potential inhibitor compounds for HDLP and HDLP-related proteins (e.g. HDACs) comprising deacetylase activity comprises the steps of: (a) using a three-dimensional structure of an HDLP as defined by the atomic coordinates of the present invention; employing said three-dimensional structure to design or select said potential inhibitor compound; (c) synthesizing and/or selecting said potential inhibitor; (d) contacting said potential inhibitor compound with said enzyme in the presence of acetylated substrate; and (e) determining the percent inhibition of deacetylase activity to determine the inhibitory activity of said potential inhibitor compound. In a further preferred embodiment, the binding properties of said rationally designed inhibitory compound may be determined by a method comprising the steps of: (a) forming a complex comprising said inhibitory compound and HDLP or a HDLP-related protein, (b) co-crystallizing said inhibitory compound-HDLP complex; (c) determining said dimensional structure of said co-crystal through molecular replacement or refinement and difference fourier with the molecular coordinates of HDLP as defined by the present invention; and (d) analyzing the three-dimensional structure to determine the binding characteristics of said potential inhibitor compound.

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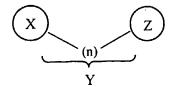
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It is a further object of the present invention to identify a defined class of HDLP/HDAC family inhibitor compounds. The HDLP/HDAC family inhibitor compounds of the present invention are represented by formula (I):

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(I)



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wherein X comprises a cap group which binds to at least one amino acid selected from the group consisting of proline and leucine; Y comprises an aliphatic chain group which binds to at least one amino acid selected from the group consisting of leucine, phenylalanine and glycine; and Z comprises and active site binding group which binds to at least one amino acid selected from the group consisting of aspartic acid, tyrosine and histidine and may further bind to a zinc atom.

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Brief Description of the Drawings

Figure 1 is a table listing the statistics from the X-ray crystallographic analysis of a HDLP crystal, a HDLP-TSA cocrystal, and a HDLP-SAHA co-crystal.

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Figure 2 shows an alignment of various HDAC homologues with percent sequence identity depicted.

Figure 3 shows a graph indicating the histone deacetylase activity of HDLP and HDAC1 and the inhibition of HDLP and HDAC1 by the inhibitors TSA and HC-toxin.

Figure 4 shows (A & B) a schematic representation of the $HDLP-Zn^{2+}-TSA$ complex in two approximately orthogonal views, (C) a topology diagram of HDLP indicating the regions of homology with HDAC1, and (D) a close-up schematic representation of the $HDLP-Zn^{2+}-SAHA$ complex.

Figure 5 shows (A) a schematic representation of a slice through a surface representation of HDLP with the pocket internal cavities and position of the β sheet indicated, (B) a schematic representation of a close-up view of the active site looking down into the pocket in an orientation similar to Figure 4B.

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Figure 6 shows (A) a space-filling representation of TSA in the active site pocket, (B) a closeup stereo view of the structure of the $HDLP-ZN^{2+}-TSA$ complex in a similar orientation to Figure 4B, and (C) a schematic representation of the HDLP-TSA interactions.

Figure 7 shows (A) a schematic representation of the regions of homology shared between HDLP and HDAC1 in an orientation similar to that of Figure 4A, and (B) a detailed schematic representation of the homology shared in the pocket and internal cavity between HDLP and HDAC1 in an orientation similar to that of Figure 4B.

Figure 8 shows a schematic representation of the proposed catalytic mechanism for the deacetylation of acetylated lysine.

Figure 9 shows a schematic representation of a space filling diagram showing the conserved amino acids in the active site and nearby grooves.

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Figure 10 is the nucleic acid sequence of HDLP from Aquifex aeolicus (SEQ ID NO. 2).

Figure 11 is the amino acid sequence of full length HDLP from Aquifex aeolicus (SEQ ID NO. 1).

Figure 12 is the nucleic acid sequence of the HDLP active site mutant Tyr297Phe (SEQ ID NO. 6).

Figure 13 is the amino acid sequence of the HDLP active site mutant Tyr297Phe (SEQ ID NO. 5).

Figure 14 is the nucleic acid sequence of a double mutant of HDLP from Aquifex aeolicus comprising a Cys75Ser and Cys77Ser mutation (SEQ ID NO. 4).

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Figure 15 is the amino acid sequence of a double mutant of HDLP from Aquifex aeolicus comprising a Cys75Ser and Cys77Ser mutation (SEQ ID NO. 3).

Figure 16-1 to 16-49 lists the atomic structure coordinates for HDLP as derived by X-ray diffraction from a crystal of HDLP.

Figure 17-1 to 17-49 lists the atomic structure coordinates

10 for HDLP Cys75Ser/Cys77Ser double mutant comprising a zinc
atom in the active site as derived by X-ray diffraction from
a crystal of the HDLP Cys75Ser/Cys77Ser double mutant.

Figure 18-1 to 18-99 lists the atomic structure coordinates for HDLP Cys75Ser/Cys77Ser double mutant as derived by X-ray diffraction from a co-crystal of HDLP complexed with TSA.

Figure 19-1 to 19-48 lists the atomic structure coordinates for HDLP Cys75Ser/Cys77Ser double mutant as derived by X-ray diffraction from a co-crystal of HDLP complexed with SAHA.

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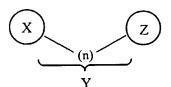
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Detailed Description of the Invention

The present invention provides crystals of a histone deacetylase (HDAC) homologue grown in the presence and absence of a compound capable of inhibiting the histone deacetylase activity of said HDAC homologue. As referred to herein, a HDAC homologue (as well as a HDLP-related protein) is any protein molecule having (a) greater than 15% sequence identity to over the 375 amino acid residues of HDLP; (b) having no more than twenty insertions or deletions for a total of no more than 100 amino acids; and (c) deacetylase activity. Sequence identity is calculated by the program DNAstar™ using the identity matrix weighing scheme clustal method (DNAstar program, Madison, WI).

A HDLP/HDAC inhibitor compound, as used herein, refers to any compound represented by Formula (I):

(I)



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wherein X comprises a cap group which binds to at least one amino acid selected from the group consisting of tyrosine, proline and leucine; Y comprises an aliphatic chain group from about 5 to about 10 Å, preferably 7Å, which binds to at least one amino acid selected from the group consisting of phenylalanine and glycine; and Z comprises a active site binding group which binds to at least one amino acid selected from the group consisting of aspartic acid, tyrosine and histidine and which may further bind to a zinc atom. The HDAC inhibitory compounds of the present

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invention can inhibit greater than 50% of the histone deacetylase activity of a HDAC homologue or a HDLP-related protein.

To grow the crystals of the present invention, the HDAC and HDAC-inhibitory compound complex are purified to greater than 80% total protein and more preferably purified to greater than 90% total protein. For expression and purification purposes, the full-length HDLP (Genbank accession number AE000719) may be subcloned from Aquifex aeolicus chromosomal DNA preparation by the polymerase chain reaction (PCR) and inserted into an expression vector.

A large number of vector-host systems known in the art may be used. Possible vectors include, but are not limited to, plasmids or modified viruses, but the vector system must be compatible with the host cell used. Examples of vectors include E. coli bacteriophages such as lambda derivatives, or plasmids such as pBR322 derivatives or pUC plasmid derivatives, e.g., pGEX vectors (Amersham-Pharmacia, Piscataway, New Jersey), pET vectors (Novagen, Madison, WI), pmal-c vectors (Amersham-Pharmacia, Piscataway, New Jersey), pFLAG vectors (Chiang and Roeder, 1993, Pept. Res. 6:62-64), baculovirus vectors (Invitrogen, Carlsbad, CA; Pharmingen, San Diego, CA), etc. The insertion into a cloning vector can, for example, be accomplished by ligating the DNA fragment into a cloning vector which has complementary cohesive termini, by blunt end ligation if no complementary cohesive termini are available or by through nucleotide linkers using techniques standard in the art. Ausubel et al. (eds.), Current Protocols in Molecular

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Biology, (1992). Recombinant vectors comprising the nucleic acid of interest may then be introduced into a host cell compatible with the vector (e.g. E. coli, insect cells, mammalian cells, etc.) via transformation, transfection, infection, electroporation, etc. The nucleic acid may also be placed in a shuttle vector which may be cloned and propagated to large quantities in bacteria and then introduced into a eukaryotic cell host for expression. The vector systems of the present invention may provide expression control sequences and may allow for the expression of proteins in vitro.

In a preferred embodiment, the full length HDLP (SEQ ID NO:2) is subcloned from Aquifex aeolicus chromosomal DNA preparation into pGEX4T3 (Amersham-Pharmacia, Piscataway, New Jersey). In order to construct a double mutant comprising a Cys75Ser and Cys77Ser mutation (SEQ ID NO:4), and to construct the HDLP active site mutant Tyr297Phe (SEQ ID NO:5 and SEQ ID NO:6), PCR site directed mutagenesis may be employed with verification by DNA sequencing by methods known to those skilled in the art (see, e.g., Example 1 below). The mutants of the present invention may be subcloned into a suitable expression vector and introduced into a host cell for protein production, as described above.

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The HDLP nucleic acids of the present invention may be subcloned into an expression vector to create an expression construct such that the resultant HDLP molecule which is produced comprises a fusion protein wherein said fusion protein comprises a tag for ease of purification. As referred to herein, a "tag" is any additional amino acids

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which are provided in a protein either c-terminally, nterminally or internally for the ease of purification, for the improvement of production or for any other purpose which may facilitate the goals of the present invention (e.g. to achieve higher levels of production and/or purification). Such tags include tags known to those skilled in the art to be useful in purification such as, but not limited to, his tag, glutathione-s-transferase tag, flag tag, mbp (maltose binding protein) tag, etc. In a preferred embodiment, the wild-type and mutant HDLPs of the present invention are tagged with glutathione-s-transferase (see Example 1 below). In another preferred embodiment, HDAC1 is flag tagged (see Example 1 below). Such tagged proteins may also be engineered to comprise a cleavage site, such as a thrombin, enterokinase or factor X cleavage site, for ease of removal of the tag before, during or after purification. Vector systems which provide a tag and a cleavage site for removal of the tag are particularly useful to make the expression constructs of the present invention.

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The tagged HDLPs and HDACs of the present invention may be purified by immuno-affinity or conventional chromatography, including but not limited to, chromatography employing the following: glutathione-sepharose™ (Amersham-Pharmacia, Piscataway, New Jersey) or an equivalent resin, nickel or cobalt-purification resins, anion exchange chromatography, cation exchange chromatography, hydrophobic resins, gel filtration, antiflag epitope resin, reverse chromatography, etc. After purification, the HDLP and HDLPinhibitor compound complex may be concentrated to greater than 1 mg/ml for crystallization purposes. In a preferred embodiment HDLP and HDLP-inhibitor complexes

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concentrated to greater than 10 mg/ml for crystallization and in a particularly preferred embodiment, HDLP and HDLP-inhibitor complexes are concentrated to greater than 20 mg/ml.

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In order to determine whether the purified HDLPs of the present invention demonstrate histone deacetylase activity, the purified HDLPs and also any HDLP-related protein may be assayed by any method known to those skilled in the art for In a preferred the determination of said activity. embodiment, the purified HDLPs of the present invention are incubated in the presence of [3H]acetyl-labeled histone substrate (Carmen et al., 1996, J. Biol. Chem. 271:15837-15844) in a buffer suitable for detection of histone deacetylase activity (see Example 3 below); stopping the reaction; extracting the released acetate and measuring said released acetate, as described by Henzel et al. (J. Biol. Chem. <u>266</u>:21936-21942 (1991); Example 3 below). preferred embodiment, the HDLPs of the present invention are inclubated in the presence of ${\rm ZnCl_2}$ in order to obtain histone deacetylase activity therefrom (Example 3 below).

In another embodiment, the crystals of the present invention comprise purified wild-type HDLP (SEQ ID NO:1) and are grown at room temperature by the hanging-drop vapor-diffusion method from a crystallization solution comprising one or more precipitants selected from the group consisting of isopropanol, polyethylene glycol, and tert butanol (see Example 2 below). The crystallization solution may further comprise one or more salts including salts selected from the group consisting of NaCl and KCl, and one or more buffers

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including buffers selected from the group consisting of Tris (tris(hydroxymethyl)aminomethane and bis-tris propane-Cl (1,3-bis[tris(hydroxymethyl)methyl-amino] propane) (see Example 2 below). The pH of the crystallization solution is preferably between pH 5 to 9, although other pH values are also contemplated by the present invention (see Example 2 below).

Any crystallization technique known to those skilled in the art may be employed to obtain the crystals of the present invention, including, but not limited to, batch crystallization, vapor diffusion (either by sitting drop or hanging drop) and micro dialysis. Seeding of the crystals in some instances may be required to obtain X-ray quality crystals. Standard micro and/or macro seeding of crystals may therefore be used.

The crystals of the present invention may form in the space group C2 with one molecule in the asymmetric unit and with unit dimensions of a=51.4 Å, b=93.8 Å, c=78.7 Å and $\beta=96.9^{\circ}$ (see Example 2 below). The crystals of the present invention may also form in the space group $P2_12_12_1$ with two molecules in the asymmetric unit and with unit dimensions of a=53.4 Å, b=94.4 Å, c=156.3 Å (see Example 2 below). However, the present invention contemplates crystals which form in any space group including, but not limited to, C2, $P2_1$, $P2_12_12_1$, $P3_121$, $P4_32_12_1$, and $C222_1$. The crystals diffract to a resolution greater than 4 Å, preferably greater than 2.5 Å.

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To collect diffraction data from the crystals of the present

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invention, the crystals may be flash-frozen in crystallization buffer employed for the growth of said crystals, however with preferably higher precipitant concentration (see, e.g., Example 2 below). For example, but not by way of limitation, if the precipitant used was 28% PEG 1500, the crystals may be flash frozen in the same crystallization solution employed for said crystal growth wherein the concentration of the precipitant is increased to 35% (see Example 2 below). If the precipitant is not a sufficient cryoprotectant (i.e. a glass is not formed upon cryoprotectants (e.g. glycerol, flash-freezing), molecular weight PEGs, alcohols, etc) may be added to the solution in order to achieve glass formation upon flashfreezing, providing the cryoprotectant is compatible with preserving the integrity of the crystals. The flash-frozen crystals are maintained at a temperature of less than -110°C and preferably less than -150°C during the collection of the crystallographic data by X-ray diffraction. diffraction data may be processed with DENZO and SCALEPACK (Otwinowski & Minor, 1997, Method Ensemble. 276:307-326) but any method known to those skilled in the art may be used to process the X-ray diffraction data.

In order to determine the atomic structure of HDLP according to the present invention, multiple isomorphous replacement (MIR) analysis, model building and refinement may be performed. For MIR analysis, the crystals may be soaked in heavy-atoms to produce heavy atom derivatives necessary for MIR analysis. As used herein, heavy atom derivative or derivitization refers to the method of producing a chemically modified form of a protein or protein complex

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crystal wherein said protein is specifically bound to a heavy atom within the crystal. In practice a crystal is soaked in a solution containing heavy metal atoms or salts, or organometallic compounds, e.g., lead chloride, gold cyanide, thimerosal, lead acetate, uranyl acetate, mercury chloride, gold chloride, etc, which can diffuse through the crystal and bind specifically to the protein. The location(s) of the bound heavy metal atom(s) or salts can be determined by X-ray diffraction analysis of the soaked crystal. This information is used to generate MIR phase information which is used to construct the three-dimensional structure of the crystallized HDLPs and HDLP-related proteins of the present invention. In a preferred embodiment, the heavy atoms comprise thimerosal, KAu(CN)2 and Pb(Me)₃OAc (see Example 2 below). The MIR phases may be calculated by any program known to those skilled in the art and preferably with the program MLPHARE (The CCP4 suite: Programs for computational crystallography, 1994, Crystallogr. D. 50:760-763) and may also use the anomalous diffraction signal from the thimerosal derivative. preferred embodiment, the MIR phases were calculated at 2.5 Å and have a mean figure of merit of 0.55 (see Figure 19 and Example 2 below). The phases may be improved where necessary by solvent flattening by methods known to those skilled in the art including, but not limited to, through the use of the program DM (The CCP4 suite: Programs for computational crystallography, 1994, Acta Crystallogr. D <u>50</u>:760-763).

Thereafter, an initial model of the three-dimensional structure may be built using the program O (Jones et al.,

1991, Acta Crystallogr. A <u>47</u>:110-119). The interpretation and building of the structure may be further facilitated by use of the program CNS (Brunger et al., 1998, Acta Crystallogr. D <u>54</u>:905-921).

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For the determination of the HDLP-inhibitor compound complex structure, if the space group of the HDLP-inhibitor compound complex crystal is different, molecular replacement may be employed using a known structure of apo-HDLP (as referred to herein, apo-HDLP or apo-HDAC is the enzyme which is not complexed with an inhibitor compound) or any known HDLP/inhibitor complex structure whose structure may be determined as described above and below in Example 2. If the space group of the HDLP-inhibitor compound crystals is the same, then rigid body refinement and difference fourier may be employed to solve the structure using a known structure of apo-HDLP (as referred to herein, apo-HDLP or apo-HDAC is the enzyme which is not complexed with an inhibitor compound) or any known HDLP/inhibitor complex structure.

The term "molecular replacement" refers to a method that involves generating a preliminary model of the three-dimensional structure of the HDLP crystals of the present invention whose structure coordinates are unknown prior to the employment of molecular replacement. Molecular replacement is achieved by orienting and positioning a molecule whose structure coordinates are known (in this case the previously determined apo-HDLP) within the unit cell as defined by the X-ray diffraction pattern obtained from an

HDLP or HDLP-related protein crystal whose structure is

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unknown so as to best account for the observed diffraction pattern of the unknown crystal. Phases can then be calculated from this model and combined with the observed amplitudes to give an approximate Fourier synthesis of the structure whose coordinates are unknown. This in turn can be subject to any of several forms of refinement to provide a final, accurate structure.

Any method known to the skilled artisan may be employed to determine the structure by molecular replacement. example, the program AMORE (The CCP4 suite: Programs for computational crystallography, 1994, Acta Crystallogr. D. 50:760-763) may be employed to determine the structure of an unknown histone deacetylase +/- an inhibitor by molecular replacement using the apo-HDLP coordinates (Figure 16). For the structure determination of the inhibitory compound TSA, the structure of TSA was obtained from the Cambridge Structural Database (Refcode TRCHST, http://www.ccdc.cam.ac.uk >>) may be employed to define the stereochemical restraints used in the refinement with the program CNS (Brunger et al., 1998, Acta Crystallogr. D 54:905-921).

The three-dimensional structural information and the atomic coordinates associated with said structural information of HDLP are useful for solving the structure of crystallized proteins which belong to the HDAC family by molecular replacement. Similarly, any structure of a crystallized protein which is thought to be similar in structure based on function or sequence similarity or identity to HDLP may be solved by molecular replacement with the HDLP structural

information of the present invention. The structure of HDLP-related proteins as determined by molecular replacement as described above and in Example 2 below, comprise a root mean square deviation (rmsd) of no greater than 2.0 Å in the positions of $C\alpha$ atoms for at least 50% or more of the amino acids of the structure over the 375 residues of full-length HDLP. Such a rmsd may be expected based on the amino acid sequence identity. Chothia & Lesk, 1986, Embo J. $\underline{5}$:823-826.

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The refined three-dimensional HDLP structures of the present invention, specifically apo-HDLP, Cys75Ser/Cys77Ser double mutant HDLP comprising a zinc atom in the active site, HDLP/TSA complex comprising a zinc atom in the active site, and HDLP/SAHA complex comprising a zinc atom in the active site, are represented by the atomic coordinates set forth in Figures 16 to 19 respectively. The refined model for apo-HDLP comprising amino acids 1-375 consists of wild-type HDLP residues 2 to 373 with residues 1, 374 and 375 not modeled and presumed disordered and was determined to a resolution refined model Similarly, the Å. 1.8 Cys75Ser/Cys77Ser double mutant HDLP comprising a zinc atom in the active site also consists of residues 2 to 373 with residues 1, 374 and 375 not modeled and presumed disordered and was determined to a resolution of 2.0 Å. The refined model for the HDLP/TSA complex comprising a zinc atom in the active site consists of the Cys75Ser/Cys77Ser double mutant HDLP residues 2 to 373 with residues 1, 374 and 375 not modeled and presumed disordered, has TSA in the binding pocket and was determined to a resolution of 2.1 Å. HDLP/SAHA complex is similar to the HDLP/TSA complex but has SAHA in the binding pocket and was determined to a resolution of 2.5 Å.

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For the purposes of further describing the structure of HDLP and HDLP-related proteins, including, but not limited to, HDACs, from the data obtained from the HDLP crystals of the present invention, the definition of the following terms is provided:

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The term " β sheet" refers to two or more polypeptide chains (or β strands) that run alongside each other and are linked in a regular manner by hydrogen bonds between the main chain C=O and N-H groups. Therefore all hydrogen bonds in a beta-sheet are between different segments of polypeptide. Most β -sheets in proteins are all-parallel (protein interiors) or all-antiparallel (one side facing solvent, the other facing the hydrophobic core). Hydrogen bonds in antiparallel sheets are perpendicular to the chain direction and spaced evenly as pairs between strands. Hydrogen bonds in parallel sheets are slanted with respect to the chain direction and spaced evenly between strands.

The term " α helix" refers to the most abundant helical conformation found in globular proteins. The average length of an α helix is 10 residues. In an α helix, all amide protons point toward the N-terminus and all carbonyl oxygens point toward the C-terminus. The repeating nature of the phi, psi pairs ensure this orientation. Hydrogen bonds within an α helix also display a repeating pattern in which the backbone C=O of residue X (wherein X refers to any amino acid) hydrogen bonds to the backbone HN of residue X+4. The α helix is a coiled structure characterized by 3.6 residues per turn, and translating along its axis 1.5 Å per amino acid. Thus the pitch is 3.6x1.5 or 5.4 Å. The screw sense of alpha helices is always right-handed.

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The term "loop" refers to any other conformation of amino acids (i.e. not a helix, strand or sheet). Additionally, a loop may contain bond interactions between amino acid side chains, but not in a repetitive, regular fashion.

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Amino acid residues in peptides shall herein after be abbreviated as follows: Phenylalanine is Phe or F; Leucine is Leu or L; Isoleucine is Ile or I; Methionine is Met or M; Valine is Val or V; Serine is Ser or S; Proline is Pro or P; Threonine is Thr or T; Alanine is Ala or A; Tyrosine is Tyr or Y; Histidine is His or H; Glutamine is Gln or Q; Asparagine is Asn or N; Lysine is Lys or K; Aspartic Acid is Asp or D; Glutamic Acid is Glu or E; Cysteine is Cys or C; Tryptophan is Trp or W; Arginine is Arg or R; and Glycine is Gly or G. For further description of amino acids, please refer to Proteins: Structure and Molecular Properties by Creighton, T.E., W.H. Freeman & Co., New York 1983.

The term "positively charged amino acid" refers to any amino acid having a positively charged side chain under normal physiological conditions. Examples of positively charged amino acids are Arg, Lys and His. The term "negatively charged amino acid" refers to any amino acid having a negatively charged side chain under normal physiological conditions. Examples of negatively charged amino acids are Asp and Glu. The term "hydrophobic amino acid" refers to any amino acid having an uncharged, nonpolar side chain that is relatively insoluble in water. Examples of hydrophobic amino acids are Ala, Leu; Ile, Gly, Val, Pro, Phe, Trp and Met. The term "hydrophilic amino acid" refers to any amino acid having an uncharged, polar side chain that is

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relatively soluble in water. Examples of hydrophilic amino acids are Ser, Thr, Tyr, Asp, Gln, and Cys. The term "aromatic amino acid" refers to any amino acid comprising a ring structure. Examples of aromatic amino acids are His, Phe, Trp and Tyr.

The term "charge relay system" refers to a His-Asp arrangement as described by Fersht & Sperling, 1973, J. Mol. Biol. 74:137-149; Blow et al., 1969, Nature 221:337-340.

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information obtained from the three-dimensional The structures of the present invention reveal that HDLP has a single-domain structure that belongs to the open α/β class of folds (see, e.g., Branden, 1980, Q. Rev. Biophys. 13:317-38). Two orthogonal views of the overall threedimensional structure of HDLP are depicted in Figure 4A and The HDLP structure has a central eight-stranded parallel β sheet (strands arranged as $\beta 2 - \beta 1 - \beta 3 - \beta 8 - \beta 7 - \beta 4 - \beta 5 \beta$ 6), and sixteen α helices (labeled α 1 through α 16 respectively). See Figure 4C. Four of the helices pack on either face of the β sheet (α 7, α 8, α 9, α 10 and α 11, α 12, α 13, α 14) forming the core α/β structure characteristic of this class of folds. Most of the remaining eight helices are positioned near one side of the β sheet, near stands β 2β1-β3-β8. Large, well defined loops (Loops L1-L7; Figure 4C) originate from the C-terminal ends of the β -strands. The extra helices and the large L1-L7 loops are associated with a significant extension of the structure beyond the core α/β motif. This extension of the structure gives rise to two prominent architectural features: a deep, narrow pocket and an internal cavity adjacent to the pocket. These

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two architectural features comprise the active site (see Figure 5A). The structure of HDLP-related proteins (e.g. HDACs) may also comprise the conserved α/β structure characteristic.

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The term "active site" comprises any or all of the following sites in HDLP, the substrate binding site, the site where the cleavage of an acetyl group from a substrate occurs or the site where an inhibitor of the HDAC family or, more particularly, HDLP binds. The active site, as referred to herein, comprises Aspl66, Asp258, His170, Tyr297, His131, His132, Asp168, Asp173, Phe141, Phe198, Leu265, Pro22 and Gly140, and also a metal bound at the bottom of the pocket by Asp173, Asp168 and His defined by the coordinates listed in Figures 16 to 19 with an rmsd of 2.0 Å. The metal which binds at the bottom of the pocket will be a divalent cation selected from the group consisting of zinc, cobalt or manganese.

The deep narrow pocket has a tube-like shape with a depth of ~ 11 Å. The pocket opening constricts half way down to ~ 4.5 by 5.5 Å, and becomes wider at the bottom (see Figure 5A). The pocket and its immediate surroundings are made up of loops L1 through L7.

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The walls of the pocket are covered with side chains of hydrophobic and aromatic residues (Pro22, Tyr91 near the entrance; and Gly140, Phe141, Phe 198, Leu265 and Tyr297 further down; Figure 5B). For numbering of amino acids please refer to SEQ ID NO:1. Of particular interest are Phe141 and Phe198, whose phenyl groups face each other in

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parallel at a distance of 7.5 Å, marking the most slender portion of the pocket (see Figure 5B). Of particular interest is that only one pocket residue differs in HDAC1 when the sequences are aligned (alignment may be accomplished using DNAstar™ MegAlign™ program, Madison, WI), this residue is Glu98 of HDAC1 which is Tyr91 in HDLP. The structure reveals that this residue in HDLP is mostly solvent exposed.

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Near the bottom of the pocket of the active site at its narrowest point, is located a zinc ion (see Figure 6A). In order to obtain the zinc in the structure, the crystals may be soaked in zinc (e.g. ZnCl₂) or co-crystalized in the presence of zinc. The zinc ion is coordinated by Asp168 (Oδ1, 2.1 Å), His170 (Nδ1, 2.1 Å), Asp258 (Oδ1, 1.9 Å) and a water molecule (2.5 Å). See Figure 5B and 6B. The amino acid residues that coordinate zinc are arranged in a tetrahedral geometry, but the position of the water molecule, which is also hydrogen bonded to His131, deviates from this geometry by ~25°.

In addition to the zinc ligands, the bottom of the pocket contains two histidine (His131 and His132), two aspartic acids (Asp166 and Asp173) and a tyrosine (Tyr297). See Figure 5B and 10B. Each of the histidines makes a hydrogen bond through its Nol to an aspartic acid carboxylate oxygen, with the oxygen located in the plane of the imidizole ring (Figure 5B). This His-Asp arrangement is characteristic of the charge relay system present in the active sites of serine proteases, where it serves to polarize the imidizole Ne and increase its basicity. Fersht & Sperling, 1973, J.

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Mol. Biol. <u>74</u>:137-149; Blow et al., 1969, Nature <u>221</u>:337-340.

The Asp166-His131 charge pair relay (hereafter referred to as "buried charged relay") is positioned even deeper in the pocket and more buried compared to the Asp173-His132 charge relay (hereafter referred to as "exposed charge relay") which is partially solvent exposed. The buried charge relay makes a hydrogen bond (2.6 Å) to the zinc-bound water molecule referred to above, and this hydrogen bond could contribute to the deviation of the water-zinc coordination from ideal geometry (Figure 5B). The exposed charge relay is directed to a point ~ 2.5 Å away from the water molecule and closer to the surface.

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Tyr 297 is positioned next to the zinc, opposite from where the two charge relay systems are located. The Tyr hydroxyl group lies 4.4 Å away from the zinc atom and has no interactions with the rest of the protein (Figure 5B). Next to Tyr297, there is an opening in the pocket wall, which leads to the adjacent internal cavity.

The floor of the internal cavity is made up of portions of the L3 and L7 loops as they emerge from the β strands, and the roof is made up by the $\alpha 1\text{-L} 1\text{-}\alpha 2$ segment. The L1 loop appears more flexible than other loops in the structure. This may allow the transient exchange of the cavity contents with the bulk solvent.

The cavity is lined primarily with hydrophobic residues and is particularly rich in glycine residues (Ala127, Gly128, Gly129, Met130, and Phe141 of L3; Gly293, Gly294, Gly295 and

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Gly296 of L7; and Tyr17, Pro22 and Leu23 of L1). There are only two charged residues in the cavity (Arg27 and His 21) and these are contributed by the L1 loop.

The cavity may provide space for the diffusion of the acetate product away from the catalytic center, which may otherwise be crowded and shielded during deacetylation from the solvent when the substrate is bound. Such a role for the cavity is supported by the observation that the cavity contains three water and two isopropanol molecules (from the crystallization buffer) in the 1.8 Å apo-protein structure. The cavity may also bind another cofactor, in addition to zinc, for the facilitation of the enzymatic activity of the HDLP. A proposed catalytic mechanism for deacetylation is provided in Figure 8.

The structure of HDLP as defined by the present invention, in conjunction with the HDAC1 sequence homology, shows that the 375-amino acid HDLP protein corresponds to the histone deacetylase catalytic core which is conserved across the HDAC family (see Figure 2). The 35.2% HDLP-HDAC1 sequence identity predicts structural similarity with a rmsd in Ca positions of ~ 1.5 Å. Chothia and Lesk describe the relation between the divergence of sequence and structure of proteins in Embo J. 5:823-826 (1986). The 40residue C-terminus of HDLP is likely to have a divergent structure since this region has lower homology to HDAC1, although the α 16 helix in this region is part of the conserved open α/β core fold and HDAC1 is likely to comprise a similar helix. However divergent this C-terminal region may be, this region is outside the active site and is likely to not effect the structure of the active site. Beyond the

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C-terminus of the histone deacetylase catalytic core, HDAC family members are divergent in length and sequence. In the HDAC family, this region (amino acid residues ~390-482) is highly polar, populated with acidic residues, and is likely to be flexible or loosely folded.

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The HDLP-HDAC homology maps primarily to the hydrophobic core and to the L1-L7 loops, with portions of the loops that make up the pocket and adjacent cavity having the highest level of amino acid residue sequence conservation (Figure 9A and 9B). Specifically, all of the polar residues in the active site (the zinc ligands, the two charge relay systems, and Tyr297) and the hydrophobic residues that make up the walls of the pocket (Gly140, Phe141, Phe198 and Leu265) are identical. Among the residues that make up the internal cavity, the ones closest to the active site are either identical or conservatively substituted (for example, Leu23 → Met and Met130→ Leu). Surface residues around the pocket are conserved to a lesser extent, but are still above 35% average sequence identity.

The information obtained from the inhibitor-bound HDLP complex crystal structures of the present invention reveal detailed information which is useful in the design, isolation, screening and determination of potential inhibitor compounds which may inhibit HDLP/HDAC family members. As described above, the HDLP structure consists of a parallel β sheet with α helices packing against both faces (Figure 4A, 4B, and 4C). At one end of the β sheet, 7 loops (L1-L7) form a narrow, tube-like pocket which are lined with hydrophobic residues and which comprise a zinc binding site, several polar side chains, including two Asp-His charge

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relay systems. Mutation of the zinc ligands and other polar residues at the pocket bottom reduces or eliminates the catalytic activity.

The present inventors found that mutation at the Tyr297Phe site reduced activity. See also, Hassig et al., 1998, Proc. Natl. Acad. Sci. USA 95:3519-3524; Kadosh & Struhl, 1998, Genes Dev. 12:797-805. The elimination of activity by mutation of these residues indicates that this region is the enzyme active site. Adjacent to the active site, there is an internal cavity that may provide space for the diffusion of the acetate reaction product. Homology at the active site between HDLP and HDAC1, as described above, indicates that they share structural and functional homology.

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The inhibitor compound, trichostatin A (TSA) (Tsuji et al., 1976, J. Antibiotics 29:1-6) binds HDLP by inserting its long aliphatic chain, which has a hydroxamic acid group at one end, into the pocket (Figure 6A, 6B and 6C). The aliphatic chain makes multiple contacts in the well-like, hydrophobic portion of the pocket. The hydroxamic acid reaches the polar bottom of the pocket, where it coordinates the zinc in a bidentate fashion and also forms hydrogen bonds with the polar residues in the active site, including the two charge relay system histidines. The aromatic dimethylamino-phenyl group at the other end of the TSA chain makes contacts at the pocket entrance and serves to cap it. The amino acid residues of HDLP which contact TSA are conserved in HDAC, indicating that TSA binds and inhibits HDAC in a similar fashion to HDLP.

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In the complex, the hydroxamic acid, most of the aliphatic chain and part of the dimethylamino-phenyl group of TSA are buried (60% of TSA's surface area; Figure 6A). The hydroxamic acid group binds the zinc in a bidentite fashion forming bonds through its carbonyl (2.4 Å) and hydroxyl groups (2.2 Å) resulting in a penta-coordinated Zn²+ (Figure 6B and 6C). The hydroxamic acid hydroxyl group replaces the water molecule that binds to the zinc in the apo-HDLP structure described above. The hydroxamic acid also hydrogen bonds with both charge relay system histidines (hydroxyl oxygen to His131 Ne2, 2.8 Å; and nitrogen to His132 Ne2, 2.8 Å), and the Tyr297 hydroxyl group (2.4 Å; Figure 6B and 6C).

15 The 5-carbon long branched alkene chain of TSA fits snugly in the narrow portion of the pocket making multiple van der Waals contacts with all of the hydrophobic groups lining the pocket (Figure 6B and 6C). Near its center, the chain contains a methyl substituted carbon-carbon double bond 20 which is sandwiched between the phenyl groups of the Phe141 and Phe98 at the tightest point of the pocket (Figure 6A and The length of the alkene chain appears optimal for spanning the length of the pocket, and allowing contacts both at the bottom and at the entrance of the pocket, although, the cap group of Formula (I) may provide length to 25 span the pocket allowing for a shorter alkene chain (aliphatic chain).

At the entrance of the pocket, one face of the planar structure formed by the dimethylamino-phenyl and adjacent carbonyl groups of TSA makes contacts at the rim of the pocket (Pro22, Tyr91, Phel41; Figure 6B and 6C). This

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packing is facilitated by the roughly 110° angle in the overall structure of TSA at the junction of the aliphatic chain and the dimethylamino-phenyl group (occurring at the sp³ hybridized C8 carbon). Upon TSA binding, the side chain of Tyr91, which is mostly solvent exposed, changes conformation to make space for the dimethylamino-phenyl group. This is the only change near the active site observed upon TSA binding.

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10 The hydroxamic acid group is a common motif in zinc metalloprotease inhibitors. See U.S. Patent No. 5,919,940 and 5,917,090; See also, Grams et al., 1995, Biochemistry 34:14012-14020; Lovejoy et al., 1999, Nat. Struct. Biol. 6:217-221; and Holmes & Matthews, 1981, Biochemistry 20:6912-6920. Like TSA, these inhibitors also coordinate 15 the active site zinc in a bidentate fashion using their hydroxamate hyroxyl and carbonyl oxygens, replace the nucleophilic water molecule with their hydroxamate hydroxyl groups and form hydrogen bonds to the general base (Grams et 20 al., 1995, Biochemistry 34:14012-14020; Lovejoy et al., 1999, Nat. Struct. Biol. 6:217-221; and Holmes & Matthews, 1981, Biochemistry 20:6912-6920).

SAHA, which has a ~30-fold weaker inhibitory activity than

TSA (Richon et al., 1998, Proc. Natl. Acad. Sci. USA

95:3003-3007), binds HDLP similarly to TSA (see, e.g.,

Figure 4D). The SAHA hydroxamic acid group makes the same

contacts to the zinc and active site residues, and the

importance of these interactions is underscored by the loss

of activity of SAHA derivatives lacking the hydroxamic group

(Richon et al., 1998, Proc. Natl. Acad. Sci. USA 95:3003-

3007). The six-carbon long aliphatic chain of SAHA packs in the tube-like hydrophobic portion of the pocket. Compared to TSA however, SAHA's aliphatic chain packs less snugly and makes fewer van der waals contacts, in part, because SAHA lacks TSA's C15 methyl group branch. SAHA also lacks TSA's double bonds in this region, and this may lead to increased flexibility of the aliphatic chain. The cap group of SAHA consists of a phenyl-amino ketone group. In the crystal structure, the phenyl group has weak electron density, suggesting that it does not pack as well as the cap group of TSA. This may be due to the larger separation between the hydroxamic and cap groups of SAHA compared to TSA (compare TSA, Formula (II) and SAHA, Formula (III), below).

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25 (III)

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The determination of the structure of HDLP and HDLP bound to an inhibitory compound has enabled, for the first time, the identification of the active site of HDLP and of related HDLP proteins, such as proteins belonging to the HDAC family.

The three-dimensional structural information and the atomic coordinates associated with said structural information of HDLP bound to an inhibitory compound is useful in rational drug design providing for a method of identifying inhibitory compounds which bind to and inhibit the enzymatic activity of HDLP, HDAC family proteins and other histone deacetylaselike proteins related to HDLP. Said method for identifying said potential inhibitor for an enzyme comprising deacetylase activity comprises the steps of (a) using a three-dimensional structure of HDLP as defined by its atomic coordinates listed in Figure 16 to 19; (b) employing said three-dimensional structure to design or select said potential inhibitor; (c) synthesizing said potential inhibitor; (d) contacting said potential inhibitor with said enzyme in the presence of an acetylated substrate; and (e) determining the ability of said inhibitor to inhibit said deacetylase activity.

The potential HDLP and HDLP-related (e.g. HDAC) inhibitors identified by the method of the present invention are represented by formula (I)

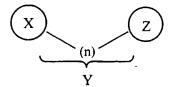
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(I)



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wherein X comprises a cap group which binds to at least one amino acid selected from the group consisting of proline and leucine; Y comprises an aliphatic chain group which binds to at least one amino acid selected from the group consisting of leucine, phenylalanine and glycine; and Z comprises an active site binding group which binds to at least one amino acid selected from the group consisting of aspartic acid, tyrosine and histidine and wherein Z may further bind to a zinc atom and with the provision that the compound of Formula (I) is not TSA, trapoxin, SAHA, SAHA derivatives described in U.S. Patent Nos. 5,608,108; 5,700,811; 5,773,474; 5840,960 and 5,668,179.

20 The present invention permits the use of molecular design techniques to design, identify and synthesize chemical entities and compounds, including inhibitory compounds, capable of binding to the active site of HDLP and HDLPrelated proteins. The atomic coordinates of apo-HDLP and 25 inhibitor-bound HDLP may be used in conjunction with computer modeling using a docking program such as GRAM, DOCK, HOOK or AUTODOCK (Dunbrack et al., 1997, Folding & Design 2:27-42) to identify potential inhibitors of HDLP and HDLP-related proteins (e.g. HDAC1). This procedure can 30 include computer fitting of potential inhibitors to the active site of HDLP to ascertain how well the shape and the

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chemical structure of the potential inhibitor complement the active site or to compare the potential inhibitors with the binding of TSA or SAHA in the active See Bugg et al, 1998, Scientific American December: 92-98; West et al., 1995, TIPS 16:67-74. potential inhibitors designed by modeling with a docking program conform to the general formula (I) as described above. Computer programs may also be employed to estimate the attraction, repulsion and stearic hindrance of the HDLP and potential inhibitor compound. Generally, the tighter the fit, the lower the stearic hindrances, the greater the attractive forces, and the greater the specificity which are important features for a specific inhibitory compound which is more likely to interact with HDLP and HDLP-related proteins rather than other classes of proteins. features are desired particularly where the inhibitory compound is a potential antitumor drug.

The compounds of the present invention may also be designed by visually inspecting the three-dimensional structure to determine more effective deacetylase inhibitors. This type of modeling may be referred to as "manual" drug design. Manual drug design may employ visual inspection and analysis using a graphics visualization program such as "O" (Jones, T.A., Zhou, J.Y., Cowan, S.W., and Kjeldgaard, M., Improved method for building protein models in electron density maps and the location of errors in these models, Acta Crystallog., A47, 110-119.

Initially potential inhibitor compounds can be selected for their structural similarity to the X, Y and Z constituents

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of formula (I) by manual drug design. The structural analog thus designed can then be modified by computer modeling programs to better define the most likely effective candidates. Reduction of the number of potential candidates is useful as it may not be possible to synthesize and screen a countless number of variations compounds that may have some similarity to known inhibitory molecules. analysis has been shown effective in the development of HIV protease inhibitors (Lam et al., 1994, Science 263:380-384; Wlodawer et al., 1993, Ann. Rev. Biochem. 62:543-585; Appelt, 1993 Perspectives in Drug Discovery and Design 1:23-48; Erickson, 1993, Perspectives in Drug Discovery and Design 1:109-128. Alternatively, random screening of an small molecule library could lead to potential inhibitors whose inhibitory activity may then be analyzed by computer modeling as described above to better determine their effectiveness as inhibitors.

The compounds designed using the information of the present invention may be competitive or noncompetitive inhibitors. These designed inhibitors may bind to all or a portion of the active site of HDLP and may be more potent, more specific, less toxic and more effective than known inhibitors for HDLP and HDLP-related proteins, and particularly HDACs. The designed inhibitors may also be less potent but have a longer half life in vivo and/or in vitro and therefore be more effective at inhibiting histone deacetylase activity in vivo and/or in vivo for prolonged periods of time. Said designed inhibitors are useful to inhibit the histone deacetylase activity of HDLP and HDLP-related proteins (e.g. HDAC1), to inhibit cell growth in

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vitro and in vivo and may be particularly useful as antitumor agents.

The present invention also permits the use of molecular design techniques to computationally screen small molecule data bases for chemical entities or compounds that can bind to HDLP in a manner analogous to the TSA and SAHA as defined the structure of the present invention. Such computational screening may identify various groups which may be defined as "X", "Y" or "Z" of formula (I) above and may be employed to synthesize the potential inhibitors of the present invention comprising formula (I). Such potential inhibitors may be assayed for histone deacetylase inhibitory activity in a histone deacetylase activity assay (see Example 3 below), may be co-crystallized with HDLP to determine the binding characteristics through X-ray crystallography techniques defined above (e.g. said cocrystal structure may be determined by molecular replacement to assess the binding characteristics of said potential inhibitor), or may be assessed based on binding activity by incubating said potential inhibitor with said HDLP, performing gel filtration to separate any free potential inhibitor to HDLP-bound inhibitor, and determining the amount of histone deacetylase activity of the inhibitorbound HDLP. To measure binding constants (e.g., Kd), methods known to those in the art may be employed such as Biacore™ analysis, isothermal titration calorimetry, Elisa with a known drug on the plate to show competitive binding, or by a deacetylase activity assay.

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The design of potential inhibitors of the present invention is further facilitated by reference to Figure 9, which is a surface representation figure that depicts the surface grooves. Analysis of such grooves gives insight into the constituents of the cap group of formula (I). The surface grooves are labeled groove A, groove A', groove B and groove C, into which additional cap groups may bind. The structure of HDLP bound to either TSA or SAHA shows that the cap groups of TSA and SAHA bind in groove A. By analysis of the amino acid sequence identity of HDLP and HDACs, Groove A is well conserved in HDACs, has a significant hydrophobic component, appears deep enough to allow for significant interactions and is also the largest of the four grooves. In addition to the dimethylamino phenyl group of the TSA, the A groove can fit approximately 200 daltons worth of groups (e.g. groove A could accommodate a naphthalene-like group after an appropriate spacer, etc.). Groove A, as referred to herein, is characterized by the following conserved residues of HDLP: His 21, Pro22, Lys24, Phe141, Leu265 and Phe335. The periphery of groove A comprises unconserved residues. Additionally, Groove A', as referred to herein, comprises primarily unconserved residues.

Groove B is immediately adjacent to the pocket. Of significance is that the bottom of groove B comprises the N-epsilon nitrogen of His170, which coordinates the zinc through its N-delta nitrogen. Significant binding energy may be achieved by contacting the Ne proton of His170 with a carboxylic acid or sulfate group. In addition, groove B may be large enough to fit a phenyl group, the face of which may comprise a partial negative charge which may pack over the N-epsilon proton of His170. The conserved residues of

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groove B, as referred to herein are: His170, Tyr196 and Leu265.

Groove C is not as well conserved as the other two grooves and the amino acid residues which comprise groove C are mostly polar and solvent exposed. Groove C, as referred to herein comprises the following conserved residues: Asn87, Gly140 and Phe198.

The compounds of the present invention are represented by formula (I):

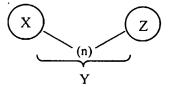
(I)

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Examples for suitable X constituents wherein X comprises a cap group may be described in three categories, depending upon which surface of groove A, A', B and/or C they are targeted to. The cap group may comprise all three categories on the same compound. Of particular benefit may be replacing the cap group of TSA or SAHA with a large, rigid structure. Nonlimiting examples for suitable cap groups (X) of formula (I) which may bind in groove A are: (1) attaching a 1-3 methyl linker followed by a phenyl or naphthalene group from the para or meta position of SAHA's phenyl group represented by formula (IV):

- 45 -

(IV)

$$n(H_2C)$$

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(2) attaching a 2-3 methyl linker followed by a phenyl or naphthalene group from the meta position of TSA's phenyl cap group, or from TSA's dimethyl amino group represented by formula (V):

(V)

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and which may bind in groove B is a 1-3 methyl group spacer followed by a carboxylate, sulfate or phenyl group as represented by formula (VI):

(VI)

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With respect to the aliphatic (Y) group, the diameter of the pocket suggests that one more methyl "side chain" could fit, in addition to the C15 methyl group on the C10 carbon. Nonlimiting suitable examples for Y constituents wherein Y comprises an aliphatic chain group are as follows: (1) add

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a methyl group to TSA on the C12 carbon (with or without a methyl group on the C10 carbon and with or without double bonds and with or without substituting the X and/or Z constituents of formula (I)as represented by formula (VII):

5 (VII)

10 (2) add a methyl group to TSA on the C9 carbon (with or without a methyl group on the C10 carbon; with or without both or either of the double bonds, and with or without substituting the X and/or Z constituents of formula (I) as represented by formula (VIII):

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(VIII)

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(3) replace the two alkalene double bonds of TSA with only one between C10 and C11, which may free the C11 and C12 torsion to allow for a better fit, the X and/or Z groups may also be substituted as represented by formula (IX):

25 (IX)

(4) cyclize C15 and C12 carbons of TSA through a sulphur atom (or nitrogen atom), the X and/or Z groups may also be substituted as represented by formula (X):

(X)

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(5) extend from the C9 carbon of TSA such that the extension approaches and/or enters groove B (see Figure 9); making C9 sp3 so that it can have some freedom; attach to C9 a 1-3 methyl group spacer which may include a double bond and they attaching thereto a sulfate, carboxylate, sulfate, hyroxyl, or phenyl group which may make an interaction with the N-epsilon proton of His170 which may coordinate the zinc atom as represented by formula (XI):

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$$X \longrightarrow \begin{cases} (15) \\ 10 \\ 11 \end{cases}$$

$$Z \longrightarrow R1 = \begin{cases} -COOH \\ -SO_4 \\ OH \end{cases}$$

$$CH_2 \cap R_1$$

25 (6) extend off the C8 carbon (replacing C14) of TSA such that the extension approaches or enters groove B; attach a 1-3 methyl group spacer (which may include a double bond) and then link thereto a carboxylate, sulfate, hydroxyl or phenyl group such that an interaction is made with the N-epsilon proton of His170 that coordinates the zinc atom; the X and/or Z constituents may also be substituted as represented by formula (XII):

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(XII)

$$\begin{array}{c|c} R_1 \\ (CH_2) & (16) \\$$

(7) substitute the C8 carbon at the end of the aliphatic chain such that the substitution may contact groove A, A', B and or C, in such an example, a cap group (X) may or may not be required and the X and Z constituents may be substituted as well, as represented by formula (XIII):

(XIII)

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(8) formulas VII through XIII above wherein the aliphatic chain further comprises a methyl group between the active site binding group (Z) and the C8 carbon, and preferably just before the C8 carbon, increasing the distance between X and Z, (9) make the connection between the aliphatic chain and the cap group more rigid (e.g., by closing a 6-membered ring which may or may not comprise oxygen, the X and Z group may also be substituted as represented by formula (XIV):

(XIV)

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and (10) combining two or more of the changes depicted by formulas (VII-XIV).

Additionally, nonlimiting examples for suitable Z groups wherein Z comprises an active site binding group are as follows: (1) hydroxamic acid, (2) carboxylic acid, (3) sulfonamide, (4) acetamide, (5) epoxyketone, (6) an ester with a methyl linker and a hydroxyl of acetate ester group to lead into the cavity and interact with a conserved arginine (Arg27) as represented by formula (XV): (XV)

$$R_1 = \begin{cases} CH_2 \mid n & 0 \\ 0 & C \\ 0 & C \end{cases}$$

$$R_1 = \begin{cases} -OH & 0 \\ -C & C \\ 0 & CH_2 \end{cases}$$

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and (7) an alphaketone as represented by formula (XVI):
(XVI)

$$R_{1} = \begin{cases} ---(CH_{2})n - OH \\ ---(CH_{2})n - CH_{2} \end{cases}$$

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Additionally, other suitable X, Y and Z constituents may be envisioned by the skilled artisan given the three-dimensional structural information of the present invention.

After having determined potential suitable X, Y and Z constituents, the constituents are combined to form a compound of formula (I) using combinatorial chemistry techniques. This may be achieved according to U.S. Patent Nos. 5,608,108; 5,700,811; 5,773,474; 5,840,960 and 5,668,179, incorporated herein by reference. Any methods

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known to one of skill in the art may be employed to synthesize compounds of formula (I) comprising X, Y and Z constituents as determined by the methods described above.

As mentioned above, the compounds of formula (I) are useful to inhibit the histone deacetylase activity of HDLP and HDAC-related proteins. Such inhibition may allow for a reduction or cessation of cell growth in vitro and in vivo.

For in vitro use, such reduction or cessation of cell growth 10 is useful to study the role of histone deacetylation and differentiation during the cell cycle and also to study other mechanisms associated with cell cycle arrest and particularly how the repression of transcription is involved 15 in cell cycle progression which may be studies in a yeast model system such as that described by Kadosh & Struhl, 1998, Mol. Cell. Biol. <u>18</u>:5121-5127. In vitro model systems which may be employed to study the effects of potential inhibitors on cell cycle progression and also tumor growth include those described by: Richon et al, 1998, Proc. Natl. 20 Acad. Sci. USA 95:3003-3007; Yoshida et al., 1995, Bioessays 17:423-430; Kim et al., 1999, Oncogene 18:2461-2470; Richon et al., 1996, Proc. Natl. Acad. Sci. USA 93:5705-5708; and Yoshida et al., 1987, Cancer Res. 47:3688-3691.

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For in vivo use, such a reduction or cessation of cell growth is useful to study the effect of said inhibitor compounds in non-human animal model systems of cancer and is also useful for the treatment of cancer in a recipient in need of such treatment. Non-limiting examples of animals which may serve as non-human animal model systems include

mice, rats, rabbits, chickens, sheep, goats, cows, pigs, and non-human primates. See, e.g., Desai et al., 1999, Proc. AACR 40: abstract #2396; Cohen et al., 1999, Cancer Res., submitted. The compounds of the present invention may be administered to a transgenic non-human animal wherein said animal has developed cancer such as those animal models in which the animal has a propensity for developing cancer (e.g. animal model systems described in U.S. Patents 5,777,193, 5,811,634, 5,709,844, 5,698,764, and 5,550,316). Such animal model systems may allow for the determination of toxicity and tumor reduction effectiveness of the compounds of the present invention.

A preferred compound of the present invention may comprise high specific activity for HDLP and HDAC-related proteins, good bioavailability when administered orally, activity in reducing or ceasing cell growth in tumor cell lines, and activity in reducing or ceasing tumor growth in animal models of various cancers.

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Accordingly, another aspect of this invention is a method of eradicating or managing cancer in a recipient, which may be an animal and is preferably a human. Said method comprises administering to said recipient a tumor reducing amount of a compound as defined by formula (I) above, or a physiological acceptable salt thereof.

In a further aspect of the invention, there is provided a composition comprising the compound of formula (I) and an excipient or carrier. Administration of the foregoing agents may be local or systemic. Such carriers include any

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suitable physiological solutions or dispersant or the like. The physiologic solutions include any acceptable solution or dispersion media, such as saline, or buffered saline. The carrier may also include antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like. Except insofar as any conventional media, carrier or agent is incompatible with the active ingredient, its use in the compositions is contemplated.

- Routes of administration for the compositions containing the delivery vehicle constructs of the present invention include any conventional and physiologically acceptable routes, such as, for example, oral, pulmonary, parenteral (intramuscular, intraperitoneal, intravenous (IV) or subcutaneous injection), inhalation (via a fine powder formulation or a fine mist), transdermal, nasal, vaginal, rectal, or sublingual routes of administration and can be formulated in dosage forms appropriate for each route of administration.
- The following examples are provided to more clearly illustrate the aspects of the invention and are not intended to limit the scope of the invention.

EXAMPLES

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25 Example 1: Protein Production and Purification:

Full-length wild-type HDLP (Genbank accession number AE000719) was subcloned from an Aquifex aeolicus chromosomal DNA preparation (provided by Robert Huber of Universitaet of Regensburg, Germany) into the pGEX4T3 (Amersham-Pharmacia, Piscataway, NJ) vector using the polymerase chain reaction (PCR). The cysteine-to-serine and active site mutants were constructed by PCR site directed mutagenesis and were

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sequenced. The HDLP-glutathione S-transferase (GST) fusion protein was produced in Escherichia coli, purified by a column using chromatography affinity glutathione-sepharose resin (Amersham-Pharmacia, Piscataway, NJ), and by anion-exchange chromatography (Q-sepharose™; Amersham-Pharmacia, Piscataway, NJ). HDLP was cleaved from the fusion protein with thrombin at 4° C, was purified by (Q-sepharose™; Amersham-Pharmacia, anion-exchange chromatography filtration Piscataway, NJ) and gel (Superdex[™]200; Amersham-Pharmacia, Piscataway, NJ), and was concentrated to typically 25 mg/ml in a buffer of 25 mM bis-tris propane (BTP), 500 mM NaCl, 5 mM dithiothrietiol (DTT), 2% isopropanol, pH 7.0.

Although, it is not known what metal cofactor HDLP contains in vivo, it is presumed to be zinc because of the arrangement of the ligands and the similarities in the active site to the zinc proteases. The lack of metal in the purified HDLP is presumed due, in part, to the use of DTT during purification. HDLP was reconstituted with Zn^{2+} by mixing the Cys75Ser/Cys77Ser double mutant at 10 mg/ml with a 5-fold molar excess of ZnCl₂ in a buffer of 25 mM bis-tris propane, 200 mM NaCl, 1% isopropanol, pH 7.0. Unbound ZnCl2 was removed by fractionating HDLP through a G25 desalting (Amersham-Pharmacia, Piscataway, NJ). The column $HDLP-Zn^{2+}-TSA$ complex was prepared by incubating the Zn^{2+} reconstituted HDLP mutant with 1 mM TSA for 45 minutes, followed by gel filtration chromatography (Superdex™200; Amersham-Pharmacia, Piscataway, NJ) to remove excess TSA, and concentration to typically 25 mg/ml in a buffer of 25 mM bis-tris propane, 500 mM NaCl, 1% isopropanol, pH 7.0.

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FLAG epitope tagged human HDAC1 was overexpressed using a baculovirus expression system in Hi5 (Invitrogen, Carlsbad, CA) insect cells grown in suspension in serum-free media (Sf900, Gibco, Grand Island, NY). The fusion protein was purified by anion exchange and affinity chromatography using Anti-FLAG M2 affinity resin (Sigma, St. Louis, MO) and FLAG Peptide (Sigma,, St. Louis, MO).

Example 2: Crystallization and data collection:

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10 Crystals of apo-HDLP were grown at room temperature by the hanging-drop vapor-diffusion method, from 7.5% isopropanol, 28% PEG 1500, 425 mM NaCl, 100 mM Tris-Cl, pH 7.0. They form in space group C2 with a = 51.4 Å, b = 93.8 Å, c = 78.7 Å, β = 96.9 Å, and contain one HDLP molecule in the asymmetric unit. Diffraction data were collected with crystals flash-frozen in a buffer of 7.5% isopropanol, 35% PEG 1500, 75 mM NaCl, 100 mM Tris-Cl, pH 8.0, at -170° C.

The structure of the HDLP- Zn²⁺ complex was determined from HDLP Cys75Ser/Cys77Ser double mutant crystals grown from 23% tert-butanol, 27% PEG 1500, 400 mM KCl, 100 mM bis-tris propane-Cl, pH 6.8. Space group and cell dimensions were identical to the apocrystals. The HDLP-Zn²⁺ crystals were harvested and frozen in 27% tert-butanol, 22% PEG 1500, 50 mM KCl, 20 mM NaCl, 0.2 mM ZnCl₂, 100 mM bis-tris propane, pH 6.8, at -170° C.

Crystals of the HDLP-Zn²⁺-TSA complex comprised HDLP Cys75Ser/Cys77Ser double mutant and were grown from 23% tert-butanol, 27% PEG 1500, 600 mM KCl, 100 mM bis-tris propane-Cl, pH 6.8, by microseeding. The crystals were grown in the presence of zinc. They form in space group

 $P2_12_12_1$ with a = 53.4 Å, b = 94.4 Å, c = 156.3 Å and contain two HDLP- Zn^{2+} -TSA complexes in the asymmetric unit. The HDLP- Zn^{2+} -TSA crystals were harvested and frozen in the same cryobuffer as the HDLP- Zn^{2+} crystals except that 0.5mM TSA was added. Data were processed with DENZO and SCALEPACK (Otwinowski & Minor, 1997, Method. Ensemble. 276:307-326). MIR analysis, model building and refinement.

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The HDLP- $\mathrm{Zn^{2+}}$ -SAHA complex crystals were grown and evaluated the same as the HDLP- $\mathrm{Zn^{2+}}$ -TSA crystals. However, the restraints for the SAHA structure were constructed based on stereochemical parameters from TSA. Like the apo-HDLP crystals, the SAHA/HDLP co-crystals grew in space group C2.

Heavy-atom soaks were performed with the apo-HDLP crystals in a buffer of 7.5% isopropanol, 30% PEG 1500, 75 mM NaCl, 100 mM Tris-Cl, pH 8.0, supplemented with 1.0 mM thimerosal for 2h, 5 mM KAu(CN)₂ for 1h, and 1 mM Pb(Me)₃OAc for 2h. MIR phases were calculated with the program MLPHARE (The CCP4 suite: Programs for computational crystallography, 1994, Acta Crystallogr. D 50:760-763) at 2.5 Å using the anomalous diffraction signal from the thimerosal derivative, and had a mean figure of merit of 0.55. The phases were improved by solvent flattening with the program DM (The CCP4 suite: Programs for computational crystallography, 1994, Acta Crystallogr. D 50:760-763) , and were used to build the initial model with the program O (Jones et al., 1991, Acta Crystallogr. A 47:110-109). Successive rounds of rebuilding and simulated annealing refinement with the program CNS (Brunger et al., 1998, Acta Crystallogr. D 54:905-921) allowed interpretation of HDLP from residues 2

to 373. Residues 1, 374, and 375 were not modeled and are presumed to be disordered.

The structure of the HDLP-Zn²⁺-TSA and HDLP-Zn²⁺-SAHA complex were determined by molecular replacement with the program AMORE (The CCP4 suite: Programs for computational crystallography, 1994, Acta Crystallogr. D 50:760-763) using the apo-HDLP structure as a search model. The initial electron density maps had strong and continuous difference density for the entire TSA molecule. However the SAHA molecule was not as well ordered in the cap group region. The structure of TSA was obtained from the Cambridge Structural Database (Refcode TRCHST) and was used to define stereochemical restraints used in the refinement with the program CNS. The restraints of SAHA were constructed based on stereochemical parameters from TSA and surrounding amino acid residues. The dimer interface in the HDLP-Zn2+-TSA and HDLP-Zn²⁺-SAHA crystals primarily involves Phe200 on the protein surface. The Phe200 side chain contacts Tyr91, whose side chain conformation changes on TSA binding, and part of the dimethyl amino phenyl group of TSA from the second protomer. The HDAC family does not contain a phenylalanine residue at the equivalent position.

25 <u>Example 3: Histone deacetylase assays</u>:

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Purified proteins were assayed by incubating 10 μ g of [3 H]acetyl-labeled murine erythroleukemia histone substrate and HDAC assay buffer (20 mM Tris-HCl, pH 8.0, 150 mM NaCl, 10% glycerol) for 30-60 minutes at 37° C in a total volume of 30 μ l. The final concentrations of HDLP and HDACl-FLAG were 3.6 μ M and 0.24 μ M, respectively. Assays were performed in duplicate. The reactions were stopped and the

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released acetate was extracted and assayed as described (Hendzel et al., 1991, J. Biol. Chem. 266:21936-21942). [3H] acetyl-labeled murine erythroleukemia histones were prepared essentially as described (Carmen et al., 1996, J. Biol. Chem. 271:15837-15844). Inhibitors were added in the absence of substrate and incubated on ice for 20 minutes, substrate was added, and the assay performed as described above. HDLP was inclubated with 20 μ M ZnCl₂ and 20 μ M MnCl₂(H2O)₄ in HDAC buffer and tested for activity.

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Only HDLP dialyzed against $\rm ZnCl_2$ had activity. HDAC1-FLAG was dialyzed against 20 μM $\rm ZnCl_2$ in HDAC buffer which had no effect on activity. Therefore, HDAC1-FLAG contains a metal as purified.

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The in vivo substrate of HDLP is not known. HDLP may have a role in acetoin utilization like the B. subtilis AcuC gene product, and it has been annotated as such in the genome sequence, but the reaction catalyzed by AcuC is also not known. Furthermore, the A. aeolicus genome appears to lack the acuA and acuB genes that are part of the acuABC operon of B. subtilis (Deckert et al., 1998 Nature 392:353-358), and HDLP is as similar to human HDAC1 (35.2 % identity) as it is to B. subtilis AcuC (34.7 % identity).

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What is claimed is:

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- A crystal of an enzyme comprising deacetylase activity 1. wherein said crystal effectively diffracts X-rays for 5 the determination of the atomic coordinates of said enzyme to a resolution of greater than 4 Å and wherein the structure of said enzyme comprises a conserved core α/β structure characteristic fold wherein said conserved α/β fold comprises an eight-stranded parallel β sheet and eight α helices and wherein four of the 10 helices pack on either face of said parallel β sheet and wherein said structure of said enzyme comprises an rmsd of less than or equal to 1.5 Å in the positions of $C\alpha$ atoms for at least 2/3 or more of the amino acids of HDLP as defined by the atomic coordinates of HDLP. 15
 - The crystal of claim 1, wherein said protein structure further comprises:
 - eight α helices positioned near one side of the β sheet; and
 - (b) at least seven large, well defined loops originating from the C-terminal ends of the β strands of said eight-stranded parallel β sheet wherein the eight extra helices and the seven large loops are associated with a significant extension of the structure beyond the core α/β motif and wherein said extension of the structure gives rise to a deep, narrow pocket and an internal cavity adjacent to the pocket.

3.

The crystal of claim 1, wherein said enzyme comprising deacetylase activity is selected from the group

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consisting of HDLP, HDLP-related proteins, HDAC1, HDAC2, HDAC3, HDAC4, HDAC5, HDAC6, HDAC-related proteins, APAH, AcuC, and functional derivatives thereof.

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- 4. The crystal of claim 2 further comprising a specifically bound zinc atom in the active site of said enzyme.
- 10 5. The crystal of claim 2 further comprising a specifically bound deacetylase inhibitor compound in the active site of said enzyme.
- 6. The crystal of claim 2 define by the atomic coordinates according to Figure 16.
 - 7. A method for identifying a potential deacetylase inhibitor compound for an enzyme which comprises deacetylase activity, said method comprising the steps of:
 - using a three-dimensional structure of HDLP as defined by atomic coordinates according to Figure 16;
 - b. employing said three-dimensional structure to design or select said potential inhibitor;
 - c. synthesizing said potential inhibitor;
 - d. contacting said potential inhibitor with said enzyme in the presence of an acetylated substrate; and
- e. determining the deacetylase inhibitory activity of said potential inhibitor.

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- 8. The method of claim 7, wherein the three-dimensional structure is designed or selected using computer modeling.
- 5 9. The method of claim 7, wherein the potential deacetylase inhibitor is designed de novo.
- 10. The method of claim 7, wherein the potential deacetylase inhibitor is designed based on a known inhibitor.
- The method of claim 7, wherein said enzyme comprising deacetylase activity is selected from the group consisting of HDLP, HDLP-related proteins, HDAC1, HDAC2, HDAC3, HDAC4, HDAC5, HDAC6, HDAC-related proteins, APAH, and AcuC.
 - 12. A method of evaluating the binding properties of the potential deacetylase inhibitor compound comprising the steps of:
 - a. co-crystallizing said compound with HDLP;

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- b. determining the three-dimensional structure of said HDLP-potential inhibitor complex co-crystal by molecular replacement using the threedimensional structure of HDLP as defined by atomic coordinates according to Figure 16; and
- c. analyzing said three-dimensional structure of said HDLP bound to said potential inhibitor compound to evaluate the binding characteristics of said potential inhibitor compound.
- 13. A method for solving the structure of an HDAC family

member crystal comprising the steps of:

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- a. collecting X-ray diffraction data of said crystal wherein said data diffracts to a high resolution limit of greater than 4 Å;
- b. using the atomic coordinates of HDLP accoding to Figure 16 to perform molecular replacement or refinement and difference fourier with said X-ray diffraction data of said HDAC family member crystal to determine the structure of said HDAC family member; and
 - c. refining said structure of said HDAC family member.
- 14. The method of claim 13, wherein said HDAC family member is HDAC1.
 - 15. A Cys75Ser/Cys77Ser double mutant of HDLP wherein said mutant is encoded by the nucleic acid sequence of SEQ ID NO:4.
 - 16. A Cys75Ser/Cys77Ser double mutant of HDLP wherein said mutant has the amino acid sequence of SEQ ID NO:3.
 - 17. A nucleotide sequence according to SEQ ID NO:4
 - 18. An expression vector comprising the nucleotide sequence of claim 17.
- 19. A method of using the crystal of claim 1 for screening
 30 for a novel drug comprising:
 - a. selecting a potential ligand by performing

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rational drug design with the three-dimensional structure determined for the crystal;

b. contacting the potential ligand with the ligand binding domain of the crystal; and

c. detecting the binding potential of the potential ligand for the ligand binding domain, wherein the novel drug is selected based on its having a greater affinity for the ligand binding domain than that of a known drug.

Statistics from the crystallographic analysis

TABLE 1.

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		B-factor (Ų) 3.55 1.04 3.83
TSA	P2,2,2, 2.1 180,427 50,796 93.8 7.1	angles (°) 1.63 1.48
Zu	C2 2.0 125,769 23,643 90.6 7.2	bonds (Å) 0.010 0.009 0.008
Aucn	C2 2.8 27,722 8,753 94.3 8.9 1.10 0.85	R-free (%) 24.0 25.8
Pb	C2 3.5 11,454 4,040 86.4 9.6 1.24 0.78	R-factor (%) 19.8 22.0 22.4
thimerosal	C2 2.3 79,023 15,958 95.7 8.4 1.47 0.72	Water atoms 228 434 456
		Total atoms 3214 3424 6475
Native	C2 1.8 134,952 32,143 92.3 2.9 .):	Reflections (IFI > 1σ) 31,550 23,582 44,122
·	(A) is sections tge (%) is (20.0-2.5 Å) ower statistics:	Resolution (Å) 1.8 2.0 SA 2.1
Data set	Space Group Resolution (A) Observations Unique reflections Data coverage (%) $R_{\rm sym}$ (%) MIR analysis (20.0-) phasing power Rcullis (ano) Refinement statistics	Data Reso Set (³ HDLP 1. HDLP-Zn 2.

F_{calc}I/ΣΙF_{obs}I, where F_{obs} and F_{calc} are the observed and calculated structure factors, respectively. Figure of merit = IF(hkl)_{best}I/F(hkl). R-free = R-factor calculated using 5% of the reflection data chosen randomly and omitted from the start of refinement. RMSD: root mean square deviations from ideal geometry and root where <F_{λj}>is the root-mean-square heavy atom structure factor and E is the residual lack of closure error. Rcullis is the mean residual lack of closure error divided by the dispersive difference. R-factor = Σ IF_{obs}-Asym = $\Sigma_h\Sigma_i$ (Ih,i-<Ih(>/ $\Sigma_h\Sigma_i$ Ih,i for the intensity (I) of i observations of reflection h. Phasing power = <F λ_i >/E, mean square variation in the B-factor of bonded atoms.

Figure 1

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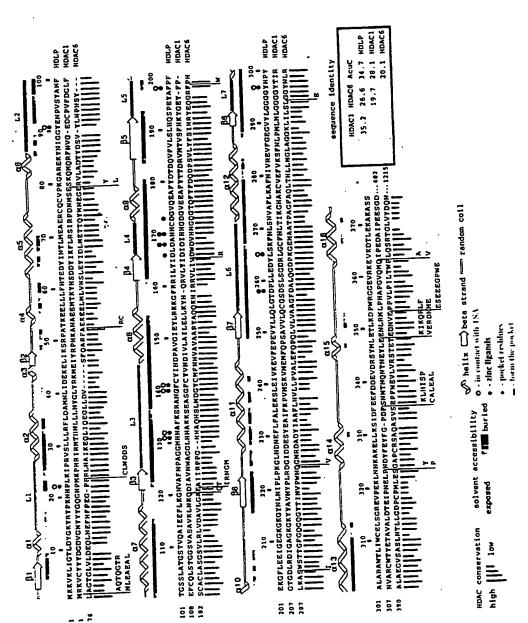


Figure 2

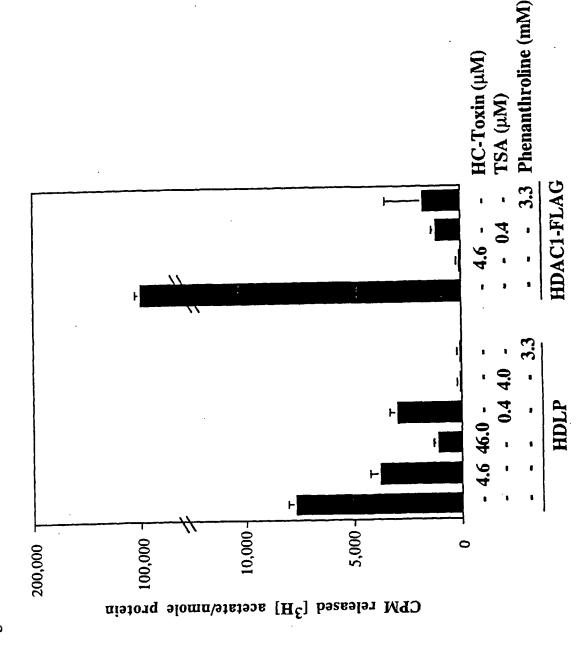
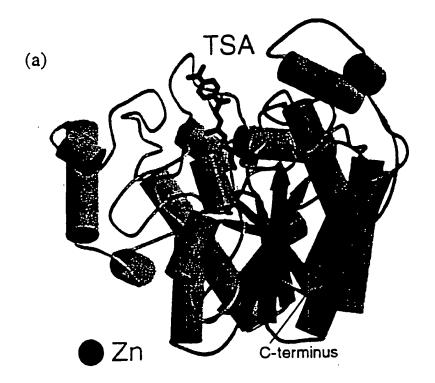


Figure 3

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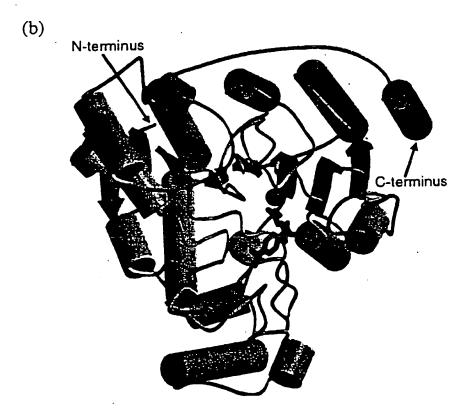


Figure 4

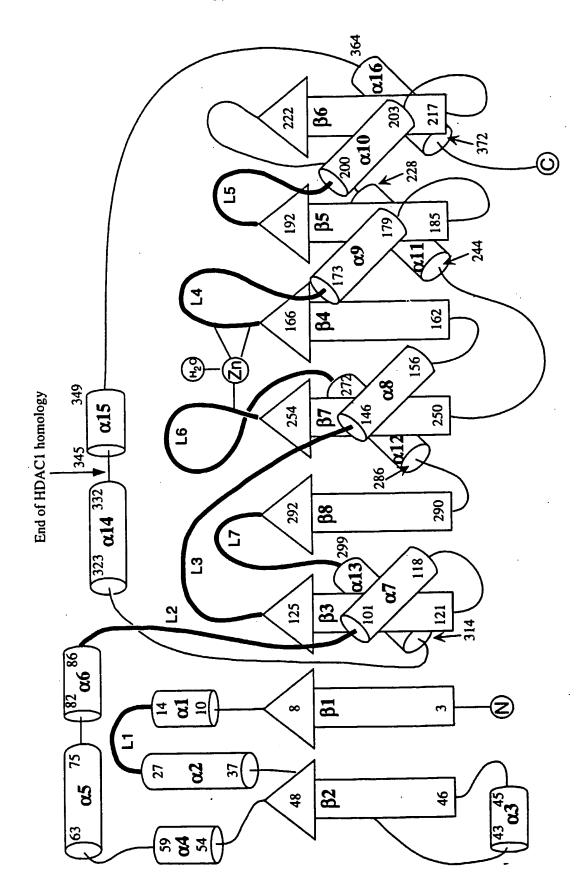


Figure 4C

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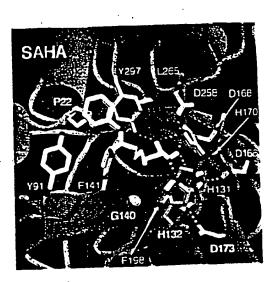


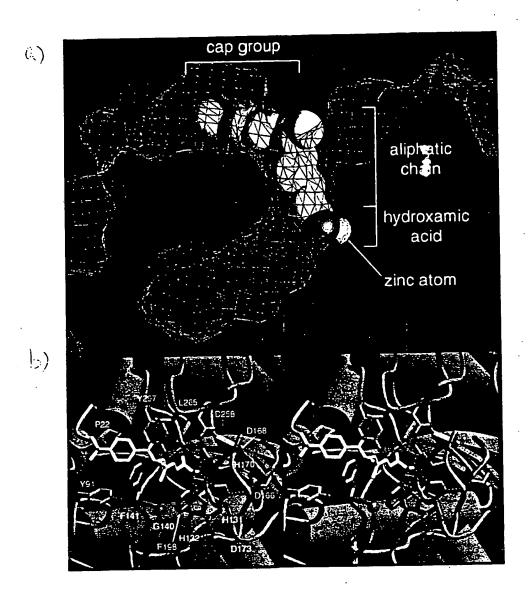
Figure 4D

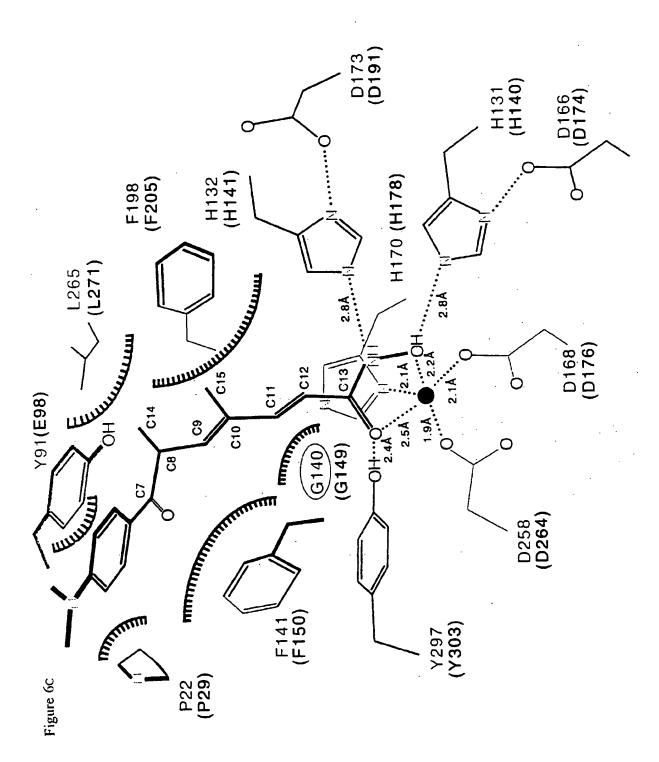
7/263 Figure 5 a) 11A pocket p) L265 D168 F198 D166 H131

D173

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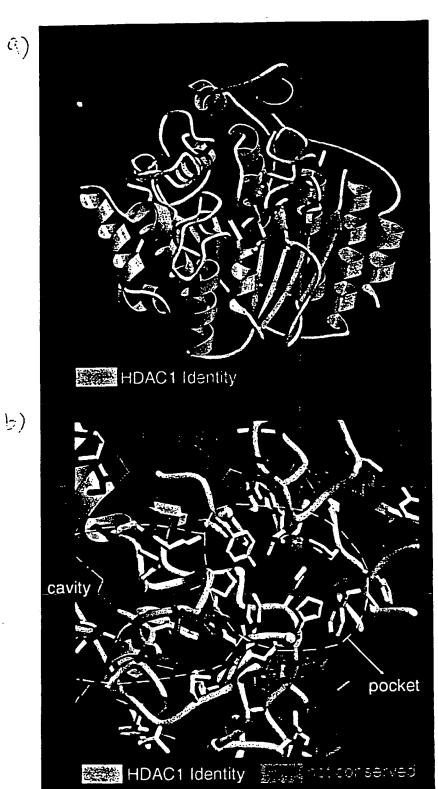
Figure 6

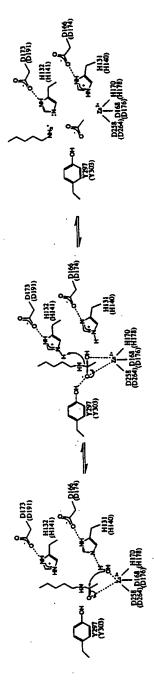




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Figure 7





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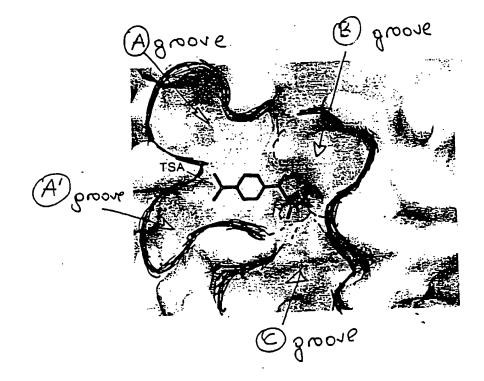


Figure 9

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	10	20	30	40
سلسب			uliulu	
ATGAAGA	AGGITAAACT.	PATCGGAACT	TTAGACTACGC	AA 40
AGTACAG	ATATCCCAAA!	ACCATCCTC	TTAAAATACC	AAG 80
	CTACTCCTTAC			
	AGAAGGAATT?			
	ACTCCTTTTA:			
	210	220	230	240
	<u></u>			
	ATGGAAGCGG			
	CCGAAAAGTA			
	TTACGCGATG			
GGGTTCA	ACAGTGCAGG	CGATAGAGGA	DAAATITITA	3GA 360
AATGTAG	CTTTCAATCC	CGCGGGAGGI	'ATGCACCACG	CTT 400
	410	420	430	440
بتليين	بيلينيلن	ببلينيلي	سلسباب	<u> بب</u>
TTAAAAC	CAGGGCAAAC	GGCTTTTGCT	'ACATAAACGA	CCC 440
CCTGTC	GGAATIGAGT.	ACTIGAGAAA	AAAAGGCTTT	AAG 480
AGAATAC	TCTACATAGA	CCTTGATGCC	CACCACTGCG	ACG 520
GIGITCA	GGAAGCCTTT	TACGATACAC	ACCAGGIGIT	CGT 560
CCTGTCC	CTTCACCAGT	CGCCCGAGTA	ACCCITICCC	TTT 600
	610	620	630	640
	سلسيلت			
GAGAAG	CTTCCTGGA	GGAGATAGGA	AGAAGGAAAAG	GAA 640
AGGGCTA	CAACCTGAAC	ATTCCCCTGC	CAAAGGGCII	GAA 680
	GAGITCCICI			
	AAGAAGTATI			
AACTCG	BAACTGACCCA	CICCIIGAA	EATTACCTTTC	CAA 800
	810	820	830	840
سلسب	ببلينيلين	سسسلب	حلسباب	سبا
GTTCAA	CTCTCAAACC	TIGOCTITI	TAAAAGCTTT	CAAC 840
ATCGTT	GIGAGGITTI	CGGGGAGGG	AGTATACCICC	3GAG 880
GAGGCG	GATACCATCCI	TACGCCCTC	GCAAGGGCAT(3GAC 920
CCTAAT	TOGTGCGAGC	TTTCGGGAA	GGAAGTGCC(3GAA 960
AAGCTA	AACAATAAAGC	'AAAAGAGCT'	ITTAAAGAGT?	ATAG 1000
	1010	1020	1030	1040
	<u></u>			للبي
	AAGAGTTTGAC			
	AACCCTAAACC			
	JAAGTAAAGGA			
CATCTT				
CATCITA	3 IIC/			

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	10	20	30	40	
	ليبيلين	سيلسب	ستطيبينا	لمستل	
MKKVKIJ	[GTLDYGKY]	RYPKNHPLK	IPRVSLLLRF	LDAMNL	40
IDEKEL	IKSRPATKE!	ELLLFHTED	YINTLMEAER	CQCVPK	80
GAREKYN	VIGGYENPV	SYAMFIGSS	LATGSTVQAI	EEFLKG	120
NVAFNPA	ACCMHHAFKS	FRANGECYI	NDPAVGIEYL	RKKGFK	160
RILYIDI	_DAHHCDGV(QEAFYDIDQ	VFVLSLHQSF	EYAFPF	200
	210	220	230	240)
بليب			230 LL)
	لىنىنلى	uuluu		لسبل	
EKGFLEE	IGEGKGKG	NLNIPLPK		LEKSLE	240
EKGFLEF IVKEVFF	TGEGKGKG TPEVYLLQLO	MINIPLPK	GLNDNEFLFA	LUIL LEKSLE FLKAFN	240 280
EKGFLEE IVKEVFE IVREVFO	TGEGKGKGY TPEVYLLQLO TEGVYLGGG	MINIPLPK STOPLLEDY SYHPYALAR	GLNDNEFLFA LSKFNLSNVA	LLLLL LEKSLE FLKAFN GREVPE	240 280 320

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	10	20	30	40
سلسب	سسس	سسلسب	ليبيطيييك	لسب
ATGAAG	AAGGITAAA	CITATOGG	ACTITAGACTA	CGGAA 40
AGTACA	GATATOCCA	AAAACCATC	CTCTTAAAATA	CCAAG 80
AGITIC	CTACTCCT	[AGGTTTT]	AGATGCCATGA	ACCIT 120
ATAGAT	GAGAAGGAA'	TAATCAAC	EAGCAGACCCGC	AACTA 160
AAGAAG	AACTCCTTT.	TATTCCACA	CGGAAGACTAC	ATAAA 200
	210	220	230	240
سلسسا	سسسلب	سيلسب	لسيلسيد	سسل
CACTITI	AATGGAAGC	GAAAGGIC	TCAGTGCGTTC	CGAAG 240
GGAGCT	AGGGAAAAG	TACAACATA	ACCOGATACGA	AAACÇ 280
CCGTATC	TTACGCGA:	IGITIACAC	ECTCTTCTCTO	GCAAC 320
GGGTTC	AACAGTGCA(COGATAGA	GGAATTTTTAA	AGGGA 360
AATGTAC	CTTTCAAT(CCCGCGGGA	GGTATGCACCA	CGCIT 400
	410	420	430	440
سلسب	للسلس	سسلس	Luuluul	لسب
DAAAATT	CAGGGCAA	ACGGCTTTT	GCTACATAAAC	GACCC 440
CGCTGTC	CGAATTGAC	TACTIGAC	AAAAAAAAGCCT	TTAAG 480
AGAATAC	TICTACATAC	ACCITGAT	GCCCACCACTG	CGACG 520
GIGTIC	AGGAAGCCTT	TTACGATA	CAGACCAGGIG	ricgr 560
CCIGICO	CITCACCAC	FICGCCCGA	GIACGCCTTTC	CCTTT 600
	610	620	630	640
			luuluul	
GAGAAG	ECTICCIG:	AGGAGATA	GGAGAAGGAAA	AGGAA 640
AGGGCTA	CAACCIGAA	CATTOCCC	TGCCAAAGGGC	ITGAA 680
CGACAAC	GAGITCCTC	TITGCCCI	AGAAAAATCIC	IGGAA 720
			GAGGITTACCI	
AACTCGG	AACTGACCC	ACTCCTTG	AAGATTACCTT	ICCAA 800
	810	820	830	840
سلسد	سلسسلت	لتستليب	ىلىسىلىسى	لسل
GITCAACC	TCTCAAACC	FIIGCCITI	TTAAAAGCTTT	CAAC 840
ATCGTTCC	FIGAGGITITI	CGGGGAGC	GAGIATACCIC	GGAG 880
GAGGCGGA	ATTCCATCCI	TACGCCCT	CGCAAGGCCAT	GGAC 920
CCTAAIÇI	CGTCCGACC	TTTCGGGA	AGGGAAGTGCC	GGAA 960
AAGCTAAA	CAATAAAGC	'AAAAGAGC	TTTTAAAGAGT	ATAG 1000
:	1010	1020	1030	1040
سلسب	بالبيبلي	لتستليب	بالتبطيين	لسل
ACTTTGAA	GAGTTTGAC	GACGAGGT	GGACCGCTCGT	ACAT 1040
			AGAGGAGGAGA	
			AAAAGGCGAAA	
CATCITA				•

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10 20 30	40
· · · · · · · · · · · · · · · · · · ·	سلسل
MKKVKLIGTLDYGKYRYPKNHPLKIPRVSLLLI	RFLDAMNL 40
IDEKELIKSRPATKEELLLFHTEDYINTIMEAI	ERCQCVPK 80
CAREKYNIGGYENPVSYAMFTGSSLATGSTVQ	AIEEFLKG 120
NVAFNPAGCMHHAFKSRANGFCYINDPAVGIE	YLRKKGFK 160
RILYIDLDAHHCDGVQEAFYDIDQVFVLSLHQ	SPEYAFPF 200
210 220 230	240
	لسبي
EKGFLEEIGEGKGKGYNLNIPLPKGLNDNEFL	FALEKSLE 240
IVKEVFEPEVYLLQLGTDPLLEDYLSKFNLSN	vaflkafn 280
IVREVFGEGVYLGGGGFHPYALARAWILIWCE	LSGREVPE 320
KLNNKAKELLKSIDFEFFDDEVDRSYMLETLK	DPWRGGEV 360
DEFENDING FRAKASS 375	

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	10	20	30	40)
سلسب	uduud a	سسلس		لببيد	•
ATGAAGA	AGGITAAAC	TTATCGGAA	CITTAGACTA	CGGAA	40
AGTACAC	ATATCCCAA	AAACCATCC	ICTTAAAATA	CCAAG	80
AGTTTCC	CTACTCCTT	AGGITTTTA	GATGCCATGA	ACCIT	120
ATAGATO	AGAAGGAAT	TAATCAAGA	3CAGACCOGC	AACTA	160
AAGAAGA	ACTCCTTTT.	ATTCCACAC	GAAGACTAC	ATAAA	200
	210	220	230	240)
سلسب	uluul	سيلسيل	بسلسط		
CACTITA	ATGGAAGCG	GAAAGGAGI	CAGAGOGITO	CGAAG	240
GGAGCTA	GGGAAAAGT	ACAACATAG	CGGATACGA	AAACC	280
CCGTATC	TTACGCGAT	FITTACAGG	Terrerero	GCAAC	320
GGGTTCA	ACAGIGCAG	CGATAGAG	AATTTTTAA	AGGGA	360
AATGTAG	CTTTCAATC	CCGCGGGAGC	TATGCACCA	CCCTT	400
	410	420	430	440)
سلسب	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	سلسيل	ليسطسي	لمبيد	
TTAAAAG	CAGGGCAAAC	CGCTTTTGC	TACATAAAC	GACCC	440
CCCIGIG	GGAATTGAG1	TACTTGAGAA	AAAAAGGCT	ITAAG	480
AGAATAC	TCTACATAGA	ACCITGATGC	CCACCACTG	CACC	520
GIGIICA	GGAAGCCITI	TACGATACA	GACCAGGIG	FTCGT	560
CCIGICO	CITCACCAGI	CGCCCGAGI	ACGCCTTTC	CTTT	600
	610	620	630	640)
سلست	سلسسلت	بلنينيلين	uduu	لبب	
GAGAAGG	GCTTCCTGGA	GGAGATAGG	AGAAGGAAA	AGGAA	640
AGGGCTA	CAACCIGAAC	ATTCCCCTG	CCAAAGGGC.	ITGAA	680
CGACAAC	GAGITCCICI	TIGCCCTAG	AAAAATCTC	TGGAA	720
ATAGICA	AAGAAGTATT	TGAGCCCGA	GGTTTACCT	ICIIC	760
AACTOGG	AACTGACCCA	CTCCTTGAA	GATTACCTT!	ICCAA	800
	810	820	830	840	١
بيلييد		114.111		البيي	,
GTTTCAACY	THEALTH	شىشىد كاكاش	TAAAAGCTT	TCA AC	840
			AGTATACCIO		880
			GCAAGGGCAI		920
			GGGAAGTGCC		960
			TTTAAAGAG1		1000
	1010 	1020 144-244	1030	1040	J
			GACCGCTCGT		1040
					1040
			GAGGAGGAGA		1080
		THICHTICA	AAAGGCGAAA	MCCI.	1120
CATCTTA	114/				

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Figure 15

	10	20	30	40	
سلىبىد	لسلسا	malma	Lucilia	ليسيل	
MKKVKLI	GILDYGKY	RYPKNHPLK	IPRVSLLLRI	TLDAMNIL	40
IDEKELI	KSRPATKE	ELLLFHTED	YINILMEAEI	RSOSVPK	80
GAREKYN	IGGYENPV	SYAMFIGSS	LATGSTVQAI	CEEFLKG	120
NVAFNPA	GGMHHAFK:	SRANGECYI	NDPAVGIEYI	RKKGFK	160
RILYIDL	DAHHCDGV	QEAFYDIDQ	VFVLSLHQSE	PEYAFPF	200
•	210		230	240	
	سلىنىد	uuluu	سيلسب	البيل	'
			GLNDNEFLFA		240
IVKEVFE	PEVYLLQLO	MOPLLEDY	SKFNLSNVA	FLKAFN	280
IVREVFG	EGANT GGGG	YHPYALAR	WILIWCELS	GREVPE	320
			SYMLETLKDE		
RKEVKDII	EKAKASS	375			

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Figure 16-1 Residue # X Y

				Residue	÷		Y	2	occ.	В	Segment ID
ATOM	1	CB	ALA	2		45.336	36.680	75.042	3.13	59.90	AAAA
atom	2	C	خين	2		46.410	38.631	73.528	1.00	52.57	AAAA
ATOM	3	S	ALA	2		45.780	39.595	74.052	1.00	62.46	AAAA
ATOM	4	71	ALA	2		47.540	37.826	75.673 74.527	1.00	58.52 57.32	AAAA
ATOM	5	CA	ALA	2		46.568	37.432	-1.32 <i>1</i> -2.389	1.50	37.32 39161	AAAA
ATOM	6	M	17S	3		46.390 46.587	38.570 39.669	1.440	1.35	29.58	aaaa aaaa
ATOM	7	CA.	LYS LYS	3 3		47.855	39.763	73.459	1.33	36.03	AAAA
ATOM	8 9	CB CG	LYS	. 3		19.217	40.007	71.102	1.55	55.16	AAAA
atom atom	10	CD	175	3		50.315	40.000	75.039	1.50	44 23	ààAà
ATOM	11	CE	LYS	3 .		51.700	40.153	70.655	1.10	73.41	AAAA
ATOM	12	NZ	LYS	3		52.791	40.047	69.642	1.00	69.64	AAAA
ATOM	13	C	LYS	3		45.407	39.422	70.642	1.00	23.29	خخخخ
ATOM	14	C	LYS	3		44.984	38.282	73.487	2.20	27.41	አ አ አአ
ATOM	15	N	TAL	4		44.314	40.498	70.138	1.30	25.18	AAAA
ATOM	16	CA	VAL	4		43.585	40.418	69.349	1.00		AAAA
ATOM	17	CB	VAL	4		42.501	41.365 41.202	69.887 69.066	- 50	31.46 26.35	4444 4444
ATOM	18	CG1	VAL	7 7		42.244	41.202	1.348	1.00	34.98	AAAA
ATOM	19 20	CG2 C	VAL	4		43.983	40.851	67.961	1.00	25.33	AAAA
ATOM ATOM	21	٥	AL	4	•	44.557	41.927	67.778	1.00	21.19	AAAA
ATOM	22	n	LYS	5		43.654	40.023	66.978	1.00	31.32	AAAA
ATOM	23	CA	LYS	5		44.052	40.291	65.607	1.50	20.10	AAAA
ATOM	24	CB	LYS	5		45.047	39.214	65.177	1.00	23.35	AAAA
ATOM	25	CG	LYS	5		46.301	39.092	55.049	1.10	23.75	AAAA
ATOM	26	CD	LYS	5		47.183	40.334	33.919	1.00	23.70	AAAA
MOTA	27	CE	LYS	5		48.510	40.151	55.669	1.10	24.34	AAAA
ATOM	28	:::2	LYS	5 5		49.351	41.397	66.585 64.596	1.10	12.04 10.37	AAAA AAAA
ATOM	29	C	LYS	5 5		42.914	40.294 39.535	54.728		18.48	AAAA
ATOM	30 31	N O	LYS L e u	6		43.071	41.111	53.564	1.00	19.28	AAAA
atom atom	32	CA	LEU	6		42.097	41.156	52.483	1.00	23.58	AAAA
ATOM	33	CB	LEU	6		41.571	42.574	62.291	1.00	23.51	ÄÄÄÄ
ATOM	34	Ĉ G	LEU	6		40.373	42,712	51.342	1.00	30.59	AAAA.
ATOM	35	CD1	LEU	6		40.079	44.192	51.153	1.00	29.90	ሕሕሕሕ
ATOM	36	003		á		40.557	42.085	39.995	1.00	33.98	AAAA
atom	37	C	LEU	6		42.964	40.701	51.237	1.00	19.17	AAAA
ATOM	38	2	LEU	6		43.911	41.249	60.919 60.538		122.31	aaaa aaaa
ATOM	39	11	ELE	<u>:</u>		42.359	39.689 39.199	59.338	1.10	13.38	AAAA
ATOM	40 41	C.A.	ELE	÷		42.922	37.674	59.191	1.50	19.05	AAAA
atom atom	42		ELE	-		43.930	17.162	53.144	1.00	16.45	AAAA
ATOM	÷3	231	ELE	-		43.283	37.007	50.521	1.00	16.45	ana.
ATOM	44	:::	ILE	-		43.096	35.543	50.450	1.11	34.99	AAAA
ATOM	45	:	ILE	. 7		42.396	39.850	58.105	1.30	17.95	AAAA
ATCM	46	2	TLE	7		41.138	39.729	57.928	1.00	19.07	بتبثيث
ATOM	47	::	JLY	3		43.193	40.552	57.330	1.00	17.70	AAAA AAAA
ATOM		·CA	JLY	9		42.523 43.540	41.193	56.148 55.243		23.91	anna Anna
ATOM	49	3	3LY	3 3		44.849	41.557	55.504			AAAA
ATOM	50	0	GLY THR	9		43.134	42.428	54.155	- 30) 13.99	AAAA
ATOM	51 52	H CA	THR	ģ		43.250	43.141	53.183	1.20	25.95	AAAA
atom atom	53	2 3	THR	á		44.739	42.195	52.263	1.00	25.30	AAAA
ATOM	54	:31		9		45.321	42.962	51.199	- · - ·	/	AAAA
ATOM	55	032		9		43.823	41.144	51.557	1.00	25.24	AAAA
ATOM	56	=	THR	ð.		43.025	43.957	52.294	\	/ _3.04	AAAA
ATOM	57	-	THR	9		41.872	+3.582	52.082	1.00	23.05	:AA:
ATOM	56	::	LEU	10		43.517	45.079	51.781		29.19	AAA
atom	59	CA	LEU	7.0		42.690	45.396	50.895	30	32.55	A AA .
ATOM	50	23	LEU	10		43.256	47.319 48.256	50.761 51.958	50	33.00	aaai aaai
atom	6 i	23.	LEU LEU	10 10		43.142 41.680	48.403	52.347		25.65	AAA
ATOM	62	:::		10 10		43.938	47.744	53.126	/	1 11 11	AAA
ATOM	63 64	5	LEU	10		42.556	45.261	49.512	1.00	32.68	AAA
atom atom	55	-	LEU	iŏ		11.736	45.584	48.702		, ~	AAA
ATOM	56	::	ASP	11		43.377	44.234	49.256	1.00	25.75	ششة
.5								-			

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					J				
ATOM	67	CA	ASP	11	43.367	43.541	47.970	1.00 35.74	AAAA
ATOM	68	СВ	ASP	11	44.477	42.485	47.922	1.00 37.61	AAAA
ATOM	69	ĊĠ	ASP	11	45.858	43.093	48.079	1.00 46.75	AAAA
ATOM	70		ASP	11	46.110	44.136	47.444	1.00 46.34	AAAA
ATOM	71		ASP	11	46.690	42.528	48.821	1.00 58.94	AAAA
ATOM	72	C	ASP	11	42.034	42.898	47.607	1.00 34.26	AAAA
ATOM	73	Ö	ASP	11	41.748	42.696	46.420	1.00 31.12	AAAA
MOTA	74	N	TYR	12	41.220	42.558	48.609	1.00 26.19	AAAA
MOTA	. 75	CA	TYR	12	39.923	41.963	48.314	1.00 28.45	AAAA
ATOM	76	CB	TYR	12	39.119	41.720	49.601	1.00 29.35	AAAA
	77	CG	TYR	12	39.648	40.595	50.470	1.00 28.47	AAAA
MOTA	78	CD1	TYR	. 12	40.137	40.846	51.755	1.00 32.17	AAAA
MOTA	79		TYR	12	40.592	39.808	52.572	1.00 30.35	AAAA
MOTA	80	CD2	TYR	12	39.629	39.276	50.017	1.00 22.97	AAAA
MOTA	81	CE2	TYR	12	40.077	38.228	50.822	1.00 19.60	AAAA
MOTA	82	CZ	TYR	12	40.554	38.499	52.096	1.00 21.42	AAAA
MOTA	83	OH	TYR	12	40.964	37.456	52.907	1.00 23.49	AAAA
ATOM ATOM	84	C	TYR	12	39.144	42.907	47.390	1.00 26.67	AAAA
	85	Ö	TYR	12	38.307	42.466	46.593	1.00 30.51	AAAA
MOTA MOTA	86	N	GLY	13	39.441	44.201	47.492	1.00 30.22	AAAA
ATOM	87	CA	GLY	13	38.767	45.203	46.675	1.00 25.13	AAAA
ATOM	88	C	GLY	13	38.911	45.009	45.177	1.00 27.31	AAAA
MOTA	89		GLY	13	38.096	45.522	44.415	1.00 29.38	AAAA
ATOM	90	N	LYS	14	39.937	44.269	44.755	1.00 33.56	AAAA
ATOM	91	CA	LYS	14	40.176	44.005	43.337	1.00 39.81	AAAA
MOTA	92	CB	LYS	14	41.680	44.026	43.031	1.00 51.10	AAAA
MOTA	93	CG	LYS	14	42.292	45.424	42.907	1.00 64.99	AAAA
MOTA	94	CD	LYS	14	41.757	46.218	41.692	1.00 72.74	AAAA
ATOM	95	CE	LYS	14	42.183	45.639	40.336	1.00 67.25	AAAA
MOTA	96	NZ	LYS	14	41.637	44.280	40.045	1.00 70.06	AAAA
ATOM	97	C	LYS	14	39.589	42.688	42.834	1.00 39.98	AAAA
ATOM	98	ō	LYS	14	39.746	42.350	41.658	1.00 46.99	AAAA
ATOM	99	N	TYR	15	38.927	41.944	43.717	1.00 32.64	AAAA
ATOM	100	CA	TYR	15	38.318	40.655	43.355	1.00 41.01	AAAA
ATOM	101	CB	TYR	15	38.996	39.512	44.126	1.00 26.48	AAAA
MOTA	102	CG	TYR	15	40.496	39.571	44.033	1.00 34.97	AAA
ATOM	103		TYR	15	41.289	39.401	45.167	1.00 43.28	AAAA
MOTA	104	CE1	TYR	15	42.677	39.548	45.106	1.00 36.05	AAAA
ATOM	105	CD2		15	41.127	39.879	42.827	1.00 40.78	AAAA
ATOM	106		TYR	15	42.508	40.027	42.756	1.00 37.13	AAAA
ATOM	107	CZ	TYR	15	43.275	39.865	43.899	1.00 36.87	AAAA
ATOM	108	OH	TYR	15	44.644	40.044	43.844	1.00 35.40	AAAA
MOTA	109	С	TYR	15	36.838	40.705	43.714	1.00 38.62	AAAA
ATOM	110	0	TYR	15	36.344	39.868	44.468	1.00 37.82	AAAA
ATOM	111	N	ARG	16	36.141	41.703	43.177	1.00 44.85	AAAA
MOTA	112	CA	ARG	16	34.716	41.890	43.431	1.00 45.75	AAAA
ATOM	113	CB	ARG	16	34.320	43.348	43.187	1.00 54.17	AAAA
ATOM	114	CG	ARG	16	35.170	44.399	43.875	1.00 66.77	AAAA
ATOM	115	CD	ARG	16	34.920	44.506	45.369	1.00 72.39	AAAA
ATCM	116	NE	ARG	16	35.649	45.646	45.923	1.00 85.39	AAAA
ATOM	117	CZ	ARG	16	35.489	46.906	45.518	1.00 81.94	AAAA
ATOM	118	NH1	ARG	16	34.624	47.197	44.554	1.00 80.19	AAAA
ATOM	119	NH2	ARG	16	36.205	47.878	46.069	1.00 85.46	AAAA
ATOM	120	С	ARG	16	33.915	41.029	42.460	1.00 43.50	AAAA
ATOM	121	0	ARG	16	34.400	40.667	41.385	1.00 38.62	AAAA
MOTA	122	N	TYR	17	32.689	40.692	42.833	1.00 32.68	AAAA
ATOM	123	CA	TYR	17	31.850	39.923	41.930	1.00 37.55	AAAA
ATOM	124	CB	TYR	17	30.662		42.672	1.00 41.05	AAAA
ATOM	125	CG	TYR	17	31.040	38.104	43.519.	1.00 37.51	AAAA
ATOM	126		TYR	17	32.039	38.194	44.493	1.00 32.59	AAAA
ATOM	127		TYR	17	32.383	37.095	45.277	1.00 29.32	AAAA
ATOM	128		TYR	17	30.393	36.875	43.346	1.00 31.46	AAAA
ATOM	129		TYR	17		. 35.772	44.122	1.00 28.64	AAAA
ATOM	130	CZ	TYR	17	31.721	35.887	45.088	1.00 27.14	AAAA
ATOM	131	ОН	TYR	17	32.044	34.807	45.881	1.00 21.73	AAAA
MOTA	132	c	TYR	17	31.380	40.871	40.836	1.00 40.97	AAAA
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ATCM 134 N PRO 18			_		17	31.435	42.097	40.984	1.00 29.58	AAAA
ATCH 135 CD FRO 18 30.760 18.910 39.318 1.00 48.67 AAAA ATCH 136 CA FRO 18 30.459 41.197 38.649 1.00 49.35 AAAA ATCH 137 CB FRO 18 30.251 40.228 27.481 1.00 59.04 AAAA ATCH 137 CB FRO 18 29.756 39.017 38.179 1.00 54.15 AAAA ATCH 137 CB FRO 18 29.756 39.017 38.179 1.00 54.15 AAAA ATCH 139 C FRO 18 29.756 39.017 38.179 1.00 54.15 AAAA ATCH 140 N LYS 19 28.951 42.868 37.904 1.00 60.87 AAAA ATCH 140 N LYS 19 28.951 42.868 37.904 1.00 60.87 AAAA ATCH 141 N LYS 19 28.951 42.868 37.904 1.00 60.87 AAAA ATCH 141 CC LYS 19 26.271 41.152 38.564 1.00 73.26 AAAA ATCH 143 CC LYS 19 25.077 43.696 37.779 1.00 57.78 AAAA ATCH 143 CC LYS 19 25.077 41.752 36.441 1.00 77.87 AAAA ATCH 143 CC LYS 19 25.077 41.752 36.425 1.00 81.01 AAAA ATCH 143 CC LYS 19 25.077 41.752 36.441 1.00 77.87 AAAA ATCH 143 CC LYS 19 25.677 41.166 35.209 1.00 81.01 AAAA ATCH 147 NZ LYS 19 25.477 38.959 34.331 1.00 83.11 AAAA ATCH 148 C LYS 19 25.6039 29.680 35.471 1.00 82.04 AAAA ATCH 149 C LYS 19 26.688 43.594 38.414 1.00 64.15 AAAA ATCH 149 C LYS 19 26.688 43.594 38.451 1.00 59.78 AAAA ATCH 150 N ASN 20 25.604 29.86 38.345 1.00 59.78 AAAA ATCH 150 N ASN 20 22.1084 22.108 42.703 39.025 1.00 59.91 AAAA ATCH 150 N ASN 20 22.1084 22.355 37.907 1.00 65.73 AAAA ATCH 150 N ASN 20 22.1084 22.355 37.907 1.00 69.73 AAAA ATCH 150 C ASN 20 22.1084 22.355 37.907 1.00 69.91 AAAA ATCH 150 C ASN 20 22.1084 22.355 37.907 1.00 69.91 AAAA ATCH 150 C ASN 20 22.1084 22.355 37.907 1.00 69.91 AAAA ATCH 150 C ASN 20 22.1084 22.355 37.907 1.00 78.73 AAAA ATCH 157 C ASN 20 22.1084 23.498 37.495 1.00 59.91 AAAA ATCH 156 C ASN 20 22.1084 23.55 37.907 1.00 78.73 AAAA ATCH 157 C ASN 20 22.1084 23.55 37.907 1.00 78.73 AAAA ATCH 157 C ASN 20 22.21 AAAA ATCH 157 C ASN 20 22.21 AAAA ATCH 157 C ASN 20 22.21 AAAA ATCH 158 C C ASN 20 22.22 AAAA ATCH 158 C C ASN 20 22.22 AAAA ATCH 158 C C ASN 20 22.22 AAAA ATC	ATCM	133	0	TYR	17					
ATTH 135 CA PRO 18 30.459 41.197 38.649 1.00 49.35 AAAA ATTH 137 CB PRO 18 30.321 40.228 37.481 1.00 59.04 AAAA ATTH 138 CG PRO 18 29.756 39.017 38.179 1.00 54.15 AAAA ATTH 138 CG PRO 18 29.756 39.017 38.179 1.00 54.15 AAAA ATTH 138 CG PRO 18 29.178 41.982 38.864 1.00 64.15 AAAA ATTH 141 N LYS 19 22.177 41.828 39.850 1.00 46.85 AAAA ATTH 142 CA LYS 19 27.777 43.696 37.749 1.00 67.78 AAAA ATTH 142 CA LYS 19 27.777 43.696 37.749 1.00 67.78 AAAA ATTH 144 CG LYS 19 26.971 41.752 36.414 1.00 77.87 AAAA ATTH 145 CD LYS 19 26.091 41.552 36.414 1.00 77.87 AAAA ATTH 146 CD LYS 19 26.091 41.552 36.414 1.00 77.87 AAAA ATTH 147 NZ LYS 19 26.601 41.66 35.209 1.00 81.01 AAAA ATTH 148 C LYS 19 26.688 43.594 38.814 1.00 68.15 AAAA ATTH 149 O LYS 19 26.6810 44.047 39.949 1.00 65.73 AAAA ATTH 150 N ASN 20 25.604 42.986 38.345 1.00 59.78 AAAA ATTH 151 CA ASN 20 21.536 41.844 38.077 1.00 68.08 AAAA ATTH 152 CB ASN 20 21.536 41.844 38.077 1.00 68.08 AAAA ATTH 153 CG ASN 20 21.132 41.505 38.211 1.00 83.22 AAAA ATTH 159 CA ASN 20 21.132 41.505 38.211 1.00 83.22 AAAA ATTH 159 CA ASN 20 21.132 41.505 38.211 1.00 83.22 AAAA ATTH 159 CA ASN 20 21.132 41.505 38.211 1.00 83.22 AAAA ATTH 159 CA ASN 20 22.108 41.997 40.361 1.00 78.67 AAAA ATTH 159 CA ASN 20 21.132 41.505 38.211 1.00 83.22 AAAA ATTH 159 CA ASN 20 22.108 42.355 37.907 1.00 68.08 AAAA ATTH 150 CA ASN 20 22.108 42.355 37.097 1.00 68.08 AAAA ATTH 150 CA ASN 20 22.108 42.355 37.097 1.00 38.32 AAAA ATTH 150 CA ASN 20 22.108 42.355 37.097 1.00 38.32 AAAA ATTH 150 CA ASN 20 22.108 42.355 37.097 1.00 38.32 AAAA ATTH 150 CA ASN 20 22.108 42.355 37.097 1.00 38.32 AAAA ATTH 150 CA ASN 20 22.108 42.355 37.097 1.00 38.32 AAAA ATTH 150 CA ASN 20 22.108 42.355 37.097 1.00 38.32 AAAA ATTH 150 CA ASN 20 22.108 42.355 37.097 1.00 38.32 AAAA ATTH 150 CA ASN 20 22.108 42.355 37.097 1.00 38.32 AAAA ATTH 150 CA ASN 20 22.108 42.355 37.097 1.00 38.32 AAAA ATTH 150 CA ASN 20 22.108 42.355 37.097 1.00 38.32 AAAA ATTH 150 CA ASN 20 22.108 42.355 37.097 1.00 38.32 AAAA ATTH 150 CA ASN 20 22.208 42.355 3	ATCM		N							
ATTEM 136 CA PRO 18 30.321 40.228 37.481 1.00 59.04 AAAA ATTEM 137 CB PRO 18 29.756 39.017 38.179 1.00 54.15 ATTEM 139 C PRO 18 29.756 39.017 38.179 1.00 54.15 ATTEM 140 0 PRO 18 28.457 41.823 39.860 1.00 54.97 AAAA ATTEM 141 N LYS 19 28.457 41.823 39.860 1.00 64.85 AAAA ATTEM 141 N LYS 19 27.177 41.823 39.860 1.00 66.87 AAAA ATTEM 142 CA LYS 19 27.177 41.823 39.860 1.00 67.78 AAAA ATTEM 143 CB LYS 19 27.177 41.823 39.860 1.00 67.78 AAAA ATTEM 143 CB LYS 19 27.177 41.752 36.414 1.00 73.26 AAAA ATTEM 144 CG LYS 19 26.971 41.752 36.414 1.00 77.87 AAAA ATTEM 145 CD LYS 19 26.971 41.752 36.414 1.00 77.87 AAAA ATTEM 146 CE LYS 19 26.971 41.752 36.414 1.00 77.87 AAAA ATTEM 146 CE LYS 19 26.393 39.680 35.401 1.00 83.11 AAAA ATTEM 146 CE LYS 19 26.488 49.94 38.814- 1.00 68.245 AAATTEM 147 NZ LYS 19 26.488 49.94 38.814- 1.00 64.15 AAATTEM 148 C LYS 19 26.488 49.94 38.814- 1.00 64.15 AAAA ATTEM 148 C LYS 19 26.488 42.986 38.814- 1.00 65.73 AAAA ATTEM 147 NZ LYS 19 25.604 42.986 38.814- 1.00 65.73 AAAA ATTEM 148 C LYS 19 26.488 42.986 38.814- 1.00 68.15 AAAA ATTEM 150 N ASN 20 225.604 42.986 38.845 1.00 59.78 AAAA ATTEM 150 N ASN 20 225.604 42.986 38.85 ND 70.00 68.08 AAAAA ATTEM 150 N ASN 20 221.894 43.988 37.907 1.00 68.08 AAAAAATTEM 150 ND ASN 20 221.894 43.988 37.907 1.00 78.73 AAAA ATTEM 150 N ASN 20 221.894 43.988 37.907 1.00 68.08 AAAAATTEM 157 N ASN 20 221.894 43.988 37.907 1.00 78.73 AAAA ATTEM 157 N ASN 20 221.894 43.988 37.907 1.00 78.73 AAAA ATTEM 157 N ASN 20 221.894 43.988 37.907 1.00 78.73 AAAA ATTEM 157 N ASN 20 221.894 43.988 37.907 1.00 78.73 AAAA ATTEM 157 N ASN 20 221.894 43.988 37.907 1.00 78.73 AAAA ATTEM 157 N ASN 20 222.4474 41.997 40.901 1.00 83.22 AAAA ATTEM 157 N ASN 20 222.4474 41.997 40.901 1.00 83.15 AAAA ATTEM 157 N ASN 20 222.4474 41.997 40.901 1.00 31.84 AAAA ATTEM 157 N ASN 20 222.4474 41.997 40.901 1.00 31.84 AAAA ATTEM 158 N B HIS 21 25.758 40.997 41.707 1.00 28.155 AAAA ATTEM 158 N B HIS 21 25.758 40.999 41.40 0.90 31.80 1.00 31.84 AAAA ATTEM 157 N ASN 20 20 22.4474 41.997 40.901 1.00	ATCM	135	CD	PRO						
ATCH 137 CB PRO 18 30.321 40.228 37.481 1.00 29.04 AAAA ATCH 138 CG PRO 18 29.756 39.017 38.179 1.00 54.15 AAAA ATCH 140 O PRO 18 29.178 41.982 38.864 1.00 54.15 AAAA ATCH 140 O PRO 18 28.457 41.823 39.860 1.00 54.15 AAAA ATCH 141 N LYS 19 28.961 42.866 37.904 1.00 60.87 AAAA ATCH 142 CA LYS 19 27.777 43.696 37.749 1.00 60.87 AAAA ATCH 143 CB LYS 19 27.155 43.278 36.425 1.00 73.26 AAAA ATCH 144 CG LYS 19 27.155 43.278 36.425 1.00 73.26 AAAA ATCH 145 CD LYS 19 26.971 41.752 36.414 1.007 37.26 AAAA ATCH 146 CE LYS 19 26.039 39.680 35.209 1.00 81.01 AAAA ATCH 146 CE LYS 19 26.039 39.680 35.209 1.00 81.01 AAAA ATCH 147 NZ LYS 19 22.417 38.99 34.311 1.00 64.15 AAAA ATCH 148 C LYS 19 26.688 43.599 34.311 1.00 64.15 AAAA ATCH 149 O LYS 19 26.688 43.599 34.311 1.00 64.15 AAAA ATCH 140 N LYS 19 26.688 43.599 34.311 1.00 64.15 AAAA ATCH 140 N LYS 19 26.688 43.599 34.311 1.00 64.15 AAAA ATCH 140 N LYS 19 26.688 43.599 34.311 1.00 64.15 AAAA ATCH 140 N LYS 19 26.688 43.599 34.311 1.00 64.15 AAAA ATCH 150 N ASN 20 22.108 42.909 39.99 90.25 1.00 65.73 AAAA ATCH 150 N ASN 20 22.108 42.909 39.99 90.25 1.00 65.73 AAAA ATCH 150 N ASN 20 22.108 42.909 38.345 1.00 59.91 AAAA ATCH 150 N ASN 20 22.108 42.909 39.25 1.00 68.08 AAAA ATCH 150 N ASN 20 22.108 42.955 37.997 1.00 68.08 AAAA ATCH 150 CB ASN 20 21.132 41.505 38.211 1.00 83.22 AAAA ATCH 150 CB ASN 20 21.132 41.505 38.211 1.00 83.22 AAAA ATCH 150 CB ASN 20 21.132 41.505 38.211 1.00 83.22 AAAA ATCH 150 CB HIS 21 25.768 40.997 41.797 40.361 1.00 53.35 AAAA ATCH 150 N ASN 20 22.108 43.993 41.211 0.00 31.84 AAAA ATCH 150 N ASN 20 22.108 49.990 1.00 1.00 17.01 AAAA ATCH 150 N ASN 20 22.108 49.993 40.305 1.00 28.37 AAAA ATCH 150 N ASN 20 22.108 49.993 40.305 1.00 28.37 AAAA ATCH 150 CB HIS 21 27.058 39.639 41.570 1.00 31.84 AAAA ATCH 150 N ASN 20 22.2108 49.990 1.00 1.00 17.01 AAAA ATCH 150 N ASN 20 22.2108 49.990 1.00 1.00 17.01 AAAA ATCH 150 N BE ST 21 22.703 49.509 49.990 1.00 28.57 AAAA ATCH 150 N BE ST 22 22.210 42.210 39.309 41.500 29.37 AAAA ATCH 150 N BE ST 22 22.210 22.210	ATCM	136	CA	PRO						
ATCM 138 CG PRO 18 29.756 39:017 38.179 1.00 24.151 AAAA ATCM 140 O PRO 18 29.178 41.982 38.864 1.00 54.97 AAAA ATCM 141 N LYS 19 28.961 42.868 37.749 1.00 66.87 AAAA ATCM 141 N LYS 19 27.777 43.696 37.749 1.00 67.78 AAAA ATCM 142 CA LYS 19 27.7157 43.696 37.749 1.00 67.78 AAAA ATCM 143 CB LYS 19 27.7157 43.696 37.749 1.00 67.78 AAAA ATCM 144 CG LYS 19 26.971 41.752 36.414 1.00 77.87 AAAA ATCM 145 CD LYS 19 26.071 41.752 36.414 1.00 77.87 AAAA ATCM 145 CD LYS 19 26.039 29.680 35.471 1.00 82.45 AAAA ATCM 146 CE LYS 19 26.039 29.680 35.471 1.00 82.45 AAAA ATCM 147 NZ LYS 19 26.681 44.047 39.949 1.00 66.173 AAAA ATCM 149 O LYS 19 26.6810 44.047 39.949 1.00 66.173 AAAA ATCM 149 O LYS 19 26.6810 44.047 39.949 1.00 66.173 AAAA ATCM 150 N ASN 20 25.604 42.986 38.345 1.00 59.78 AAAA ATCM 151 CA ASN 20 24.353 42.703 39.025 1.00 59.91 AAAA ATCM 152 CB ASN 20 21.516 41.844 38.077 1.00 68.08 AAAA ATCM 153 CG ASN 20 22.108 42.355 37.997 1.00 78.79 AAAA ATCM 154 ODI ASN 20 21.132 41.505 38.211 1.00 88.22 AAAA ATCM 156 C ASN 20 21.132 41.505 38.211 1.00 88.22 AAAA ATCM 156 C ASN 20 22.108 42.355 37.997 1.00 78.79 AAAA ATCM 157 O ASN 20 21.514 41.977 40.361 1.00 53.35 AAAA ATCM 158 ND ASN 20 21.515 41.505 38.211 1.00 88.22 AAAA ATCM 156 C ASN 20 22.161 42.155 31.211 1.00 48.23 AAAA ATCM 157 O ASN 20 21.512 41.505 38.211 1.00 88.22 AAAA ATCM 156 C ASN 20 22.5161 42.112 41.212 41.00 78.67 AAAA ATCM 157 O ASN 20 22.5161 42.112 41.212 41.00 78.67 AAAA ATCM 157 O ASN 20 22.5161 42.112 41.212 41.00 78.67 AAAA ATCM 157 O ASN 20 22.5161 42.112 41.212 41.00 78.67 AAAA ATCM 157 O ASN 20 22.5161 42.112 41.214 41.00 78.67 AAAA ATCM 157 O ASN 20 22.5161 42.112 41.00 36.211 1.00 48.23 AAAA ATCM 156 C ASN 20 22.5163 41.216 40.511 1.00 48.23 AAAA ATCM 157 O ASN 20 22.5163 41.216 40.511 1.00 48.23 AAAA ATCM 158 N HIS 21 25.768 AOA 30.39 41.570 1.00 31.14 AAAA ATCM 158 N LEU 23 29.616 44.244 42.830 1.00 25.13 AAAA ATCM 157 O ASN 20 22.26.4174 40.92 46.187 1.00 34.98 AAAA ATCM 157 O ASN 20 22.26.4174 40.92 46.187 1.00 32.51 AAAA ATCM 158 N LEU 2		137	CB	PRO	18	30.321	40.228			
170			CG	PRO	18	29.756	39:017	38.179		
ATCH 140 0 PRO 18 28.457 41.823 39.850 1.00 46.85 AAAA ATCH 141 N LYS 19 28.951 42.868 37.799 1.00 60.87 AAAA ATCH 142 CA LYS 19 27.7157 43.696 37.749 1.00 67.78 AAAA ATCH 143 CB LYS 19 27.155 43.278 36.425 1.00 73.26 AAAA ATCH 144 CG LYS 19 26.971 41.752 36.414 1.00 77.87 AAAA ATCH 145 CD LYS 19 26.971 41.752 36.414 1.00 77.87 AAAA ATCH 146 CE LYS 19 26.093 39.680 35.471 1.00 82.45 AAAA ATCH 146 CE LYS 19 26.691 41.166 35.209 1.00 81.01 AAAA ATCH 146 CE LYS 19 26.693 39.680 35.471 1.00 82.45 AAAA ATCH 146 CE LYS 19 26.688 43.594 38.814- 1.00 64.15 AAAA ATCH 147 NZ LYS 19 26.688 43.594 38.814- 1.00 64.15 AAAA ATCH 148 C LYS 19 26.680 42.965 38.345 1.00 59.78 AAAA ATCH 140 C LYS 19 26.680 42.986 38.345 1.00 59.78 AAAA ATCH 151 CA ASN 20 21.351 41.844 38.077 1.00 68.08 AAAA ATCH 152 CA ASN 20 22.108 42.953 37.997 1.00 78.73 AAAA ATCH 153 CA SN 20 21.192 41.505 38.211 1.00 83.22 AAAA ATCH 153 CA SN 20 21.192 41.505 38.211 1.00 83.22 AAAA ATCH 155 ND ASN 20 21.192 41.505 38.211 1.00 83.22 AAAA ATCH 156 C ASN 20 21.192 41.505 38.211 1.00 83.22 AAAA ATCH 156 C ASN 20 21.192 41.505 38.211 1.00 83.22 AAAA ATCH 156 C ASN 20 21.192 41.505 38.211 1.00 83.22 AAAA ATCH 156 C ASN 20 21.192 41.505 38.211 1.00 83.22 AAAA ATCH 156 C ASN 20 21.192 41.505 38.211 1.00 83.22 AAAA ATCH 157 O ASN 20 21.192 41.505 38.211 1.00 84.23 AAAA ATCH 156 C ASN 20 22.508 44.2152 37.00 30.30 3.24 AAAA ATCH 156 C ASN 20 22.508 44.2152 37.00 30.30 3.24 AAAA ATCH 157 O ASN 20 22.508 44.2152 37.00 30.30 3.24 AAAA ATCH 157 O ASN 20 22.508 44.2152 37.90 1.00 78.67 AAAA ATCH 157 O ASN 20 22.508 44.2152 37.00 30.00 31.24 AAAA ATCH 157 O ASN 20 22.508 44.2152 37.00 30.00 31.24 AAAA ATCH 157 O ASN 20 22.508 44.2152 37.00 30.00 31.24 AAAA ATCH 157 O ASN 20 22.508 44.2152 37.00 30.00 31.24 AAAA ATCH 157 O ASN 20 22.508 44.2152 37.00 30.00 31.24 AAAA ATCH 158 N HIS 21 25.768 40.977 41.570 1.00 31.84 AAAA ATCH 157 O ASN 20 22.508 44.2152 41.00 31.00 31.34 AAAA ATCH 157 O ASN 20 22.508 44.2152 41.00 31.34 AAAA ATCH 158 N HIS 21 22.508 AAAA ATCH 159 N HIS 21 22						29.178	41.982	38.864		AAAA
ATTOM 141 N 1475 19 28.961 42.868 37.904 1.00 60.87 AAAA ATTOM 140 CB LYS 19 27.777 43.696 37.749 1.00 67.78 AAAA ATTOM 140 CB LYS 19 27.777 43.696 37.749 1.00 67.78 AAAA ATTOM 140 CB LYS 19 26.6971 41.752 36.414 1.00 77.87 AAAA ATTOM 146 CC LYS 19 26.6971 41.752 36.414 1.00 77.87 AAAA ATTOM 146 CC LYS 19 26.6919 39.680 35.471 1.00 82.45 AAAAA ATTOM 147 NZ LYS 19 26.6209 39.680 35.471 1.00 82.45 AAAAA ATTOM 148 C LYS 19 26.688 43.594 88.814 1.00 68.11 AAAAA ATTOM 149 O LYS 19 26.688 43.594 88.814 1.00 65.73 AAAAA ATTOM 149 O LYS 19 26.688 43.594 88.814 1.00 65.73 AAAAA ATTOM 150 N ASNN 20 22.6810 44.047 39.949 1.00 65.73 AAAAA ATTOM 150 N ASNN 20 22.108 42.986 38.345 1.00 59.78 AAAAA ATTOM 151 CA ASNN 20 22.108 42.986 38.345 1.00 59.78 AAAAA ATTOM 152 CB ASNN 20 22.108 42.986 38.345 1.00 75.97 AAAAA ATTOM 153 CG ASNN 20 22.108 42.985 37.907 1.00 68.08 AAAAA ATTOM 153 CG ASNN 20 22.108 42.355 37.907 1.00 68.08 AAAAA ATTOM 155 ND2 ASNN 20 21.132 41.505 38.211 1.00 83.22 AAAAA ATTOM 156 C ASNN 20 21.132 41.505 38.211 1.00 83.22 AAAAA ATTOM 156 C ASNN 20 22.108 42.355 37.907 1.00 68.08 AAAAA ATTOM 157 O ASN 20 22.108 42.355 37.907 1.00 68.08 AAAAA ATTOM 156 C ASNN 20 22.108 42.355 37.907 1.00 68.08 AAAAA ATTOM 157 O ASN 20 22.611 42.112 41.204 1.00 83.22 AAAAA ATTOM 156 C ASNN 20 22.611 42.112 41.204 0.00 78.73 AAAAA ATTOM 156 C ASNN 20 22.611 42.112 41.212 41.204 0.00 53.355 AAAAA ATTOM 156 C ASNN 20 22.611 42.112 41.212 41.00 83.22 AAAAA ATTOM 161 CG HIS 21 27.356 38.411 1.00 83.22 AAAAA ATTOM 161 CG HIS 21 27.356 38.411 1.00 83.22 AAAAA ATTOM 162 CD2 HIS 21 27.368 39.639 41.570 1.00 31.84 AAAAA ATTOM 163 ND1 HIS 21 26.999 36.269 42.900 1.00 17.01 AAAAA ATTOM 166 CB HIS 21 27.368 39.639 41.570 1.00 31.84 AAAAA ATTOM 166 CB HIS 21 27.368 39.639 41.570 1.00 32.31 AAAAA ATTOM 166 CB HIS 21 27.368 39.639 41.570 1.00 32.31 AAAAA ATTOM 166 CB HIS 21 22.57.88 01.391 41.891 1.00 29.37 AAAAA ATTOM 167 ND PRO 22 26.554 42.272 46.616 1.00 29.17 AAAAA ATTOM 167 ND PRO 22 26.554 42.272 46.616 1.00 29.17 AAAAA ATTOM 167 ND PRO							41.823	39.850	1.00 46.85	AAAA
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ATOM 146 CE LYS 19 26.039 39.680 35.471 1.00 82.49 AAAA ATOM 148 C LYS 19 25.617 38.959 34.331 1.00 83.11 AAAA ATOM 148 C LYS 19 26.688 31.594 38.814 1.00 64.15 AAAA ATOM 150 N ASN 20 25.604 42.986 38.345 1.00 59.78 AAAA ATOM 151 CA ASN 20 24.535 42.703 39.025 1.00 59.78 AAAA ATOM 151 CA ASN 20 24.535 42.703 39.025 1.00 59.78 AAAA ATOM 152 CB ASN 20 23.516 41.844 38.077 1.00 68.08 AAAA ATOM 154 ODI ASN 20 21.089 43.498 37.496 1.00 78.67 AAAA ATOM 155 ND2 ASN 20 21.894 43.498 37.496 1.00 78.67 AAAA ATOM 155 ND2 ASN 20 21.894 43.498 37.496 1.00 78.67 AAAA ATOM 156 C ASN 20 24.474 41.977 40.361 1.00 83.35 AAAA ATOM 157 O ASN 20 24.474 41.977 40.361 1.00 83.35 AAAA ATOM 157 O ASN 20 24.474 41.977 40.361 1.00 83.35 AAAA ATOM 158 N HIS 21 25.543 41.206 40.511 1.00 44.23 AAAA ATOM 150 CA HIS 21 25.768 40.397 41.707 1.00 28.15 AAAA ATOM 160 CB HIS 21 27.088 33.639 41.570 1.00 28.15 AAAA ATOM 161 CG HIS 21 27.088 33.639 41.570 1.00 31.84 AAAA ATOM 161 CG HIS 21 27.155 38.411 42.48 1.00 34.79 AAAA ATOM 166 CB HIS 21 27.088 33.639 41.570 1.00 31.84 AAAA ATOM 166 CB HIS 21 27.155 38.411 42.48 1.00 34.79 AAAA ATOM 166 CB HIS 21 27.088 33.639 41.570 1.00 31.84 AAAA ATOM 166 CB HIS 21 27.155 38.411 42.48 1.00 34.79 AAAA ATOM 166 CB HIS 21 27.155 38.411 42.48 1.00 34.79 AAAA ATOM 166 CB HIS 21 27.155 38.411 42.48 1.00 34.79 AAAA ATOM 166 CB HIS 21 27.344 38.259 43.752 1.00 25.03 AAAA ATOM 166 CB HIS 21 27.344 38.259 43.752 1.00 25.03 AAAA ATOM 166 CB HIS 21 27.344 38.259 43.752 1.00 25.03 AAAA ATOM 167 O HIS 21 26.979 36.269 42.900 1.00 17.01 AAAA ATOM 167 O HIS 21 26.939 37.148 41.917 1.00 34.81 AAAA ATOM 167 O HIS 21 26.939 40.555 44.066 1.00 29.14 AAAA ATOM 167 O HIS 21 26.939 40.555 44.066 1.00 29.14 AAAA ATOM 167 O HIS 21 22.5034 41.150 44.151 41.00 59.93 AAAA ATOM 167 O HIS 21 22.5034 41.150 44.151 41.00 59.93 AAAA ATOM 167 O HIS 21 22.5034 41.150 44.151 41.00 59.93 AAAA ATOM 167 O HIS 21 22.5034 41.150 44.151 41.00 59.93 AAAA ATOM 167 O HIS 21 22.5034 41.509 42.900 42.900 42.900 AAAA ATOM 167 O HIS 21 22.5034 41.500 42.	ATOM	145	CD	LYS						
ATOM 148 C LYS 19 25.417 38.959 34.331 1.00 64.15 AAAA ATOM 149 0 LYS 19 26.68B 43.594 38.814 1.00 65.73 AAAA ATOM 150 N ASN 20 25.604 42.986 38.345 1.00 59.78 AAAA ATOM 151 CA ASN 20 24.353 42.703 39.025 1.00 59.91 AAAA ATOM 152 CB ASN 20 24.553 42.703 39.025 1.00 59.91 AAAA ATOM 153 CG ASN 20 22.108 42.385 37.907 1.00 68.08 AAAA ATOM 154 ODI ASN 20 21.894 43.498 37.496 1.00 78.73 AAAA ATOM 155 ND2 ASN 20 21.1894 43.498 37.496 1.00 78.67 AAAA ATOM 155 ND2 ASN 20 21.1894 43.498 37.496 1.00 78.67 AAAA ATOM 156 C ASN 20 24.474 41.977 40.361 1.00 59.92 AAAA ATOM 157 0 ASN 20 23.516 42.244 41.234 1.00 59.92 AAAA ATOM 158 N HIS 21 25.543 41.206 40.511 1.00 44.23 ATOM 159 CA HIS 21 27.088 39.639 41.570 1.00 28.15 AAAA ATOM 160 CB HIS 21 27.088 39.639 41.570 1.00 31.84 AAAA ATOM 161 CG CD2 HIS 21 27.155 38.411 42.418 1.00 34.79 AAAA ATOM 163 ND1 HIS 21 26.979 36.269 42.900 1.00 17.01 AAAA ATOM 166 CB HIS 21 27.344 38.259 43.752 1.00 25.03 ATOM 167 O HIS 21 26.979 36.269 42.900 1.00 17.01 AAAA ATOM 166 C HIS 21 27.288 39.329 43.1752 1.00 25.03 AAAA ATOM 167 O HIS 21 26.979 37.148 41.112 41.234 1.00 34.81 ATOM 168 NPRO 22 24.301 39.322 44.066 1.00 29.37 AAAA ATOM 167 O HIS 21 22.5763 41.115 43.051 1.00 29.37 AAAA ATOM 168 NPRO 22 25.093 40.555 44.066 1.00 29.37 AAAA ATOM 167 O HIS 21 26.979 36.269 42.900 1.00 17.01 AAAA ATOM 167 O HIS 21 26.979 37.144 0.054 1.00 31.84 AAAA ATOM 167 O HIS 21 22.5763 41.115 43.051 1.00 29.37 AAAA ATOM 167 O HIS 21 22.5763 41.115 43.051 1.00 29.37 AAAA ATOM 168 C BIS 21 27.328 36.937 44.026 1.00 32.31 AAAA ATOM 167 O HIS 21 22.5763 41.115 43.051 1.00 29.37 AAAA ATOM 168 C BIS 21 26.999 37.148 41.115 43.051 1.00 29.37 AAAA ATOM 169 C BRO 22 26.503 40.555 44.066 1.00 29.17 AAAA ATOM 169 C BRO 22 26.614 41.115 41.064 1.00 31.20 AAAA ATOM 169 C BRO 22 26.614 41.115 41.00 41.00 31.34 ATOM 169 C BRO 22 26.614 41.115 41.00 41.00 31.34 ATOM 169 C BRO 22 26.618 42.918 45.395 1.00 32.84 ATOM 170 C A BRO 22 26.614 42.918 45.395 1.00 29.22 AAAA ATOM 180 C C EU 23 29.656 44.290 1.00 29.25 AAAA ATOM 180	MCTA	146	CE	LYS	19	26.039				
ATOM 148 C LYS 19 26.688 33.594 38.814 1.00 64.15 AAAA ATOM 150 N ASN 20 25.604 42.986 38.345 1.00 59.78 AAAA ATOM 151 CA ASN 20 24.535 42.703 39.949 1.00 65.73 AAAA ATOM 152 CB ASN 20 24.535 42.703 39.025 1.00 59.78 AAAA ATOM 153 CG ASN 20 22.108 42.355 37.907 1.00 78.67 AAAA ATOM 154 ODI ASN 20 21.894 43.498 37.496 1.00 78.67 AAAA ATOM 155 ND2 ASN 20 21.894 43.498 37.496 1.00 78.67 AAAA ATOM 155 ND2 ASN 20 21.894 43.498 37.496 1.00 58.35 AAAA ATOM 155 ND2 ASN 20 21.894 43.498 37.496 1.00 58.35 AAAA ATOM 157 O ASN 20 23.611 42.105 38.211 1.00 83.22 AAAA ATOM 157 O ASN 20 23.611 42.105 38.211 1.00 83.22 AAAA ATOM 157 O ASN 20 23.611 42.105 38.211 1.00 83.23 AAAA ATOM 157 O ASN 20 23.611 42.105 38.211 1.00 83.24 AAAA ATOM 159 CA HIS 21 25.543 41.206 40.511 1.00 44.23 AAAA ATOM 160 CB HIS 21 27.088 39.639 41.570 1.00 31.84 AAAA ATOM 161 CG HIS 21 27.155 38.411 42.418 1.00 34.79 AAAA ATOM 161 CG HIS 21 27.155 38.411 42.418 1.00 34.79 AAAA ATOM 162 CD2 HIS 21 27.384 38.259 43.752 1.00 25.03 AAAA ATOM 163 ND1 HIS 21 26.929 37.188 41.917 1.00 34.81 AAAA ATOM 166 C HIS 21 27.228 36.917 44.026 1.00 32.31 AAAA ATOM 166 NEE HIS 21 25.763 40.554 42.900 1.00 17.01 AAAA ATOM 166 NEE HIS 21 25.763 40.554 42.900 1.00 17.01 AAAA ATOM 166 NEE HIS 21 25.763 40.555 44.066 1.00 29.37 AAAA ATOM 169 CD PRO 22 26.303 39.322 44.061 1.00 31.20 AAAA ATOM 169 CD PRO 22 26.504 42.272 46.187 1.00 32.84 AAAA ATOM 170 CA PRO 22 26.554 42.272 46.916 1.00 32.84 AAAA ATOM 170 CA PRO 22 26.554 42.272 46.916 1.00 32.84 AAAA ATOM 170 CA PRO 22 26.554 42.272 46.916 1.00 32.854 AAAA ATOM 170 CA PRO 22 26.554 42.272 46.916 1.00 32.85 AAAAA ATOM 170 CA PRO 22 26.554 42.272 46.916 1.00 32.85 AAAAA ATOM 170 CA PRO 22 26.554 42.272 46.916 1.00 32.85 AAAAA ATOM 170 CA PRO 22 26.554 42.272 46.916 1.00 32.85 AAAAA ATOM 170 CA PRO 22 26.554 42.272 46.916 1.00 32.85 AAAAA ATOM 170 CA PRO 22 26.554 42.272 46.916 1.00 32.85 AAAAA ATOM 180 C LEU 23 38.803 39.397 47.410 1.00 19.35 AAAAA ATOM 180 C LEU 23 38.803 39.397 47.410 1.00 28.55 AAAAA ATOM 180 C LEU 23 28.		147	NZ	LYS	19	25.417				
ATOM 150 N ASN 20 25.604 42.986 38.345 1.00 59.78 AAAA ATOM 151 CA ASN 20 24.553 42.703 39.025 1.00 59.91 AAAA ATOM 152 CB ASN 20 22.108 42.986 38.345 1.00 59.91 AAAA ATOM 153 CG ASN 20 22.108 42.355 37.907 1.00 68.08 AAAA ATOM 154 ODI ASN 20 21.132 41.505 38.211 1.00 68.08 AAAA ATOM 155 ND2 ASN 20 21.132 41.505 38.211 1.00 68.32.2 AAAA ATOM 155 ND2 ASN 20 21.132 41.505 38.211 1.00 53.35 AAAA ATOM 156 C ASN 20 24.474 41.977 40.361 1.00 59.92 AAAA ATOM 157 O ASN 20 23.611 42.112 41.234 1.00 59.92 AAAA ATOM 158 N HIS 21 25.543 41.206 40.511 1.00 44.23 AAAA ATOM 159 CA HIS 21 27.088 39.639 41.570 1.00 28.15 AAAA ATOM 160 CB HIS 21 27.088 39.639 41.570 1.00 28.15 AAAA ATOM 161 CG HIS 21 27.155 38.411 42.418 1.00 34.79 AAAA ATOM 161 CG HIS 21 27.344 38.259 37.148 41.917 1.00 31.84 AAAA ATOM 161 CG HIS 21 27.344 38.259 43.752 1.00 25.03 AAAA ATOM 166 CB HIS 21 27.344 38.259 43.752 1.00 25.03 AAAA ATOM 166 CB HIS 21 27.344 38.259 43.752 1.00 25.03 AAAA ATOM 166 CB HIS 21 27.344 38.259 43.752 1.00 25.03 AAAA ATOM 166 CB HIS 21 27.344 38.259 43.752 1.00 25.03 AAAA ATOM 166 CB HIS 21 27.28 36.297 44.026 1.00 32.31 AAAA ATOM 166 CB HIS 21 27.228 36.297 44.026 1.00 32.31 AAAA ATOM 166 CB HIS 21 27.228 36.297 44.026 1.00 32.31 AAAA ATOM 166 CB HIS 21 22.25.763 41.135 43.051 1.00 29.37 AAAA ATOM 167 O HIS 21 26.979 37.144 0.026 1.00 32.31 AAAA ATOM 167 O HIS 21 22.228 36.917 44.026 1.00 32.31 AAAA ATOM 167 O HIS 21 22.228 36.917 44.026 1.00 32.31 AAAA ATOM 167 O HIS 21 22.228 36.917 44.026 1.00 32.31 AAAA ATOM 167 O HIS 21 22.228 36.917 44.026 1.00 32.31 AAAA ATOM 167 O HIS 21 22.228 36.917 44.026 1.00 32.31 AAAA ATOM 167 O HIS 21 22.228 36.917 44.026 1.00 32.917 AAAA ATOM 167 O HIS 21 22.228 36.917 44.026 1.00 32.917 AAAA ATOM 167 O HIS 21 22.228 36.917 44.026 1.00 32.917 AAAA ATOM 167 O HIS 22 22.304 41.135 43.051 1.00 29.37 AAAA ATOM 168 CB PRO 22 24.301 39.322 44.061 1.00 31.20 AAAA ATOM 168 CB PRO 22 24.301 39.322 44.061 1.00 31.20 AAAA ATOM 169 CB PRO 22 22.3034 41.115 40.061 1.00 31.20 AAAA ATOM 169 CB PRO 22 22.3034			С	LYS	19	26.688	43.594			
ATOM 150 N ASN 20 25.604 42.986 38.345 1.00 59.78 AAAA ATOM 151 CA ASN 20 24.153 42.703 39.025 1.00 59.91 AAAA ATOM 152 CB ASN 20 23.516 41.844 38.077 1.00 68.08 AAAA ATOM 153 CG ASN 20 21.08 42.355 37.907 1.00 78.67 AAAA ATOM 154 ODL ASN 20 21.894 43.498 37.496 1.00 78.67 AAAA ATOM 155 NDZ ASN 20 21.894 41.505 38.211 1.00 83.22 AAAA ATOM 155 NDZ ASN 20 24.474 41.977 40.361 1.00 59.35 AAAA ATOM 155 NDZ ASN 20 23.611 42.112 41.234 1.00 59.92 AAAA ATOM 157 O ASN 20 23.611 42.112 41.234 1.00 59.92 AAAA ATOM 158 N HIS 21 25.568 40.397 41.707 1.00 28.15 AAAA ATOM 159 CA HIS 21 27.058 39.639 41.570 1.00 31.84 AAAA ATOM 160 CB HIS 21 27.058 39.639 41.570 1.00 31.84 AAAA ATOM 161 CG HIS 21 27.355 38.411 42.418 1.00 34.79 AAAA ATOM 162 CD2 HIS 21 27.344 38.259 43.752 1.00 25.03 AAAA ATOM 163 NDI HIS 21 26.929 37.148 41.917 1.00 34.81 AAAA ATOM 164 CEI HIS 21 27.228 36.917 44.026 1.00 32.31 AAAA ATOM 165 NEZ HIS 21 27.328 36.917 44.026 1.00 32.31 AAAA ATOM 166 C HIS 21 27.228 36.917 44.026 1.00 32.31 AAAA ATOM 167 O HIS 21 25.763 41.135 43.051 1.00 29.17 AAAA ATOM 167 O HIS 21 25.563 41.135 43.051 1.00 29.37 AAAA ATOM 167 O HIS 21 25.563 41.135 43.051 1.00 29.17 AAAA ATOM 167 O HIS 21 25.563 41.135 43.051 1.00 29.17 AAAA ATOM 169 CD PRO 22 26.034 41.155 44.066 1.00 32.31 AAAA ATOM 169 CD PRO 22 26.034 41.155 44.066 1.00 29.14 AAAA ATOM 169 CD PRO 22 26.503 44.155 44.066 1.00 29.14 AAAA ATOM 170 CA PRO 22 26.594 42.900 1.00 17.01 AAAA ATOM 170 CA PRO 22 26.594 42.900 1.00 17.01 AAAA ATOM 170 CA PRO 22 26.594 42.900 44.066 1.00 29.14 AAAA ATOM 170 CA PRO 22 26.594 42.901 40.00 30.11 AAAA ATOM 170 CA PRO 22 26.594 42.901 40.00 30.11 AAAA ATOM 170 CB EU 23 28.803 39.72 44.061 1.00 31.20 AAAA ATOM 170 CB EU 23 28.803 39.73 44.506 1.00 29.17 AAAA ATOM 170 CB EU 23 28.803 39.70 44.056 1.00 29.17 AAAA ATOM 170 CB EU 23 28.803 39.70 37.11 AAAA ATOM 170 CB EU 23 28.803 39.70 40.565 40.066 1.00 29.17 AAAA ATOM 170 CB EU 23 28.803 39.70 40.565 40.066 1.00 29.17 AAAA ATOM 170 CB EU 23 28.803 39.70 40.565 40.066 1.00 29.17 AAAA ATOM 1					19	26.810	44.047	39.9 49		
ATOM 151 CA ASN 20 24.353 42.703 39.025 1.00 59.91 AAAA ATOM 152 CB ASN 20 22.108 42.355 37.907 1.00 68.08 AAAA ATOM 153 CG ASN 20 22.108 43.498 37.907 1.00 78.67 AAAA ATOM 154 ODL ASN 20 21.1894 43.498 37.907 1.00 78.67 AAAA ATOM 155 NDZ ASN 20 21.132 41.505 38.211 1.00 83.22 AAAA ATOM 155 NDZ ASN 20 21.132 41.505 38.211 1.00 83.22 AAAA ATOM 157 O ASN 20 23.611 42.112 41.234 1.00 53.35 AAAA ATOM 157 O ASN 20 23.611 42.112 41.234 1.00 53.35 AAAA ATOM 158 N HIS 21 25.543 41.206 40.511 1.00 44.23 AAAA ATOM 158 N HIS 21 27.088 39.639 41.570 1.00 31.84 AAAA ATOM 160 CB HIS 21 27.155 38.411 42.418 1.00 34.79 AAAA ATOM 161 CG HIS 21 27.155 38.411 42.418 1.00 34.79 AAAA ATOM 162 CDZ HIS 21 27.344 38.259 43.752 1.00 25.03 AAAA ATOM 163 NDI HIS 21 26.929 37.148 14.917 1.00 34.81 AAAA ATOM 164 CEI HIS 21 27.228 36.917 44.026 1.00 32.31 AAAA ATOM 165 NEZ HIS 21 25.563 41.917 1.00 34.81 AAAA ATOM 166 C HIS 21 27.228 36.917 44.026 1.00 32.31 AAAA ATOM 166 C HIS 21 25.563 41.35 43.051 1.00 29.37 AAAA ATOM 167 O HIS 21 25.563 41.35 43.051 1.00 29.37 AAAA ATOM 168 N PRO 22 25.033 40.565 44.066 1.00 32.31 AAAA ATOM 167 O HIS 21 25.563 41.185 43.051 1.00 29.37 AAAA ATOM 167 O HIS 21 25.563 41.185 43.051 1.00 29.37 AAAA ATOM 167 O HIS 21 25.563 41.185 43.051 1.00 29.37 AAAA ATOM 167 O HIS 21 25.563 41.185 43.051 1.00 29.37 AAAA ATOM 167 O HIS 21 25.563 41.185 43.051 1.00 29.17 AAAA ATOM 167 O HIS 21 25.563 41.185 43.051 1.00 29.17 AAAA ATOM 167 O HIS 21 25.563 41.185 43.051 1.00 29.37 AAAA ATOM 168 C PRO 22 25.033 40.565 44.066 1.00 32.31 AAAA ATOM 168 C PRO 22 25.033 40.565 44.066 1.00 32.31 AAAA ATOM 168 C PRO 22 25.033 40.565 44.066 1.00 29.17 AAAA ATOM 170 C PRO 22 26.554 42.272 44.061 1.00 34.37 AAAA ATOM 170 C PRO 22 26.554 42.272 44.061 1.00 34.98 AAAA ATOM 170 C C PRO 22 26.554 42.272 44.061 1.00 34.98 AAAA ATOM 173 C PRO 22 26.554 42.272 1.00 29.17 AAAA ATOM 173 C PRO 22 26.554 42.272 1.00 29.17 AAAA ATOM 173 C PRO 22 26.554 42.272 1.00 29.17 AAAA ATOM 178 C BEU 23 29.651 41.718 45.109 1.00 29.17 AAAA ATOM 178 C BEU 23 2						25.604	42.986	38.345	1.00 59.78	
ATOM 152 CB ASN 20 23.516 41.844 38.077 1.00 68.08 AAAA ATOM 153 CG ASN 20 21.08 42.355 37.907 1.00 78.67 AAAA ATOM 154 ODL ASN 20 21.894 43.498 37.496 1.00 78.67 AAAA ATOM 155 NDZ ASN 20 21.132 41.505 38.211 1.00 83.22 AAAA ATOM 156 C ASN 20 24.474 41.977 40.361 1.00 53.35 AAAA ATOM 157 O ASN 20 23.611 42.112 41.234 1.00 59.92 AAAA ATOM 158 N HIS 21 25.568 40.397 41.707 1.00 28.15 AAAA ATOM 159 CA HIS 21 25.768 40.397 41.707 1.00 28.15 AAAA ATOM 159 CA HIS 21 27.088 39.639 41.5707 1.00 31.84 AAAA ATOM 160 CB HIS 21 27.348 38.259 41.707 1.00 34.79 AAAA ATOM 161 CG HIS 21 27.348 38.259 34.752 1.00 25.03 AAAA ATOM 162 CDZ HIS 21 27.348 38.259 34.752 1.00 25.03 AAAA ATOM 164 CEI HIS 21 26.979 37.148 41.917 1.00 34.81 AAAA ATOM 165 NDZ HIS 21 27.228 36.917 44.026 1.00 32.31 AAAA ATOM 165 CH HIS 21 27.228 36.917 44.026 1.00 32.31 AAAA ATOM 166 C HIS 21 27.228 36.917 44.026 1.00 32.31 AAAA ATOM 166 C HIS 21 25.763 41.135 43.051 1.00 29.37 AAAA ATOM 166 C HIS 21 25.763 41.135 43.051 1.00 29.37 AAAA ATOM 167 O HIS 21 26.593 40.565 44.066 1.00 29.14 AAAA ATOM 168 N PRO 22 25.093 40.565 44.066 1.00 29.14 AAAA ATOM 168 N PRO 22 25.093 40.565 44.066 1.00 29.14 AAAA ATOM 168 N PRO 22 25.093 40.565 44.066 1.00 29.14 AAAA ATOM 167 O HIS 21 26.49 39.392 44.061 1.00 31.20 AAAA ATOM 170 CA PRO 22 24.301 39.322 44.061 1.00 31.20 AAAA ATOM 170 CA PRO 22 25.093 40.565 44.066 1.00 29.14 AAAA ATOM 170 CA PRO 22 25.093 40.565 44.066 1.00 29.14 AAAA ATOM 170 CA PRO 22 25.093 40.565 44.061 1.00 31.20 AAAA ATOM 170 CA PRO 22 26.417 40.192 66.187 1.00 34.98 AAAA ATOM 170 CA PRO 22 25.093 40.565 44.061 1.00 31.20 AAAA ATOM 170 CA PRO 22 25.093 40.565 44.061 1.00 31.20 AAAA ATOM 170 CA PRO 22 25.093 40.565 44.061 1.00 32.91 AAAA ATOM 170 CA PRO 22 25.093 40.565 44.061 1.00 32.91 AAAA ATOM 180 CD LEU 23 29.661 41.74 40.192 40.6187 1.00 34.98 AAAA ATOM 180 CD LEU 23 29.661 41.74 40.192 40.6187 1.00 34.98 AAAA ATOM 180 CD LEU 23 29.661 41.74 40.192 40.6187 1.00 25.81 AAAA ATOM 180 CD LEU 23 29.661 41.78 40.192 40.00 1.00 28.57 AAAA ATOM 180 CD								39.025	1.00 59.91	AAAA
ATOM 153 CG ASN 20 22.108 42.355 37.907 1.00 78.73 AAAA ATOM 154 ODI ASN 20 21.894 43.498 37.496 1.00 78.67 AAAA ATOM 155 NDZ ASN 20 21.894 43.498 37.496 1.00 78.67 AAAA ATOM 156 C ASN 20 22.4.474 41.977 40.361 1.00 53.22 AAAA ATOM 157 O ASN 20 23.611 42.112 41.234 1.00 59.92 AAAA ATOM 158 N HIS 21 25.543 41.206 40.511 1.00 44.23 AAAA ATOM 159 CA HIS 21 25.543 41.206 40.511 1.00 44.23 AAAA ATOM 160 CB HIS 21 27.588 39.639 41.570 1.00 31.84 AAAA ATOM 161 CG HIS 21 27.155 38.411 42.418 1.00 34.79 AAAA ATOM 161 CG HIS 21 27.344 38.259 43.752 1.00 25.03 AAAA ATOM 162 CDZ HIS 21 27.344 38.259 43.752 1.00 25.03 AAAA ATOM 163 NDI HIS 21 26.529 37.148 11.917 1.00 34.81 AAAA ATOM 165 NEZ HIS 21 27.228 36.917 44.026 1.00 32.31 AAAA ATOM 166 C HIS 21 27.364 38.259 42.900 1.00 17.01 AAAA ATOM 166 C HIS 21 27.363 41.135 43.051 1.00 29.37 AAAA ATOM 168 N PRO 22 25.034 40.666 1.00 29.14 AAAA ATOM 167 O HIS 21 25.634 41.355 43.051 1.00 29.37 AAAA ATOM 168 N PRO 22 25.034 40.666 40.00 29.14 AAAA ATOM 169 CD PRO 22 25.034 40.661 1.00 31.20 AAAA ATOM 169 CD PRO 22 24.174 40.192 46.187 1.00 34.98 AAAA ATOM 170 CA PRO 22 25.034 40.185 43.051 1.00 29.14 AAAA ATOM 170 CA PRO 22 25.034 41.185 43.051 1.00 29.14 AAAA ATOM 170 CA PRO 22 25.034 41.185 43.051 1.00 29.14 AAAA ATOM 170 CA PRO 22 25.034 41.185 43.051 1.00 29.17 AAAA ATOM 170 CA PRO 22 25.034 41.185 43.051 1.00 29.17 AAAA ATOM 170 CA PRO 22 25.034 41.185 43.051 1.00 29.17 AAAA ATOM 170 CA PRO 22 26.554 40.661 1.00 30.11 AAAA ATOM 170 CA PRO 22 26.554 40.661 1.00 29.14 AAAA ATOM 170 CA PRO 22 26.554 40.691 1.00 30.11 AAAA ATOM 170 CA PRO 22 26.554 40.272 44.061 1.00 34.37 AAAA ATOM 170 CB LEU 23 29.307 37.113 47.410 1.00 19.05 2.84 AAAA ATOM 170 CB LEU 23 29.414 40.192 46.187 1.00 34.98 AAAA ATOM 170 CB LEU 23 29.414 40.192 46.187 1.00 26.59 AAAA ATOM 170 CB LEU 23 29.651 41.718 40.092 1.00 29.17 AAAA ATOM 170 CB LEU 23 29.651 41.718 40.092 1.00 29.17 AAAA ATOM 170 CB LEU 23 29.661 41.718 40.092 1.00 29.52 AAAA ATOM 170 CB LEU 23 29.661 41.718 40.092 1.00 29.52 AAAA ATOM 170 CB								38.077	1.00 68.08	AAAA
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ATOM 164 CE1 HIS 21 26.979 36.269 42.900 1.00 17.01 AAAA ATOM 165 NE2 HIS 21 27.228 36.917 44.026 1.00 32.31 AAAA ATOM 166 C HIS 21 25.763 41.135 43.051 1.00 29.37 AAAA ATOM 167 O HIS 21 26.346 42.210 43.186 1.00 28.54 AAAA ATOM 168 N PRO 22 25.093 40.565 44.066 1.00 29.14 AAAA ATOM 169 CD PRO 22 24.301 39.322 44.061 1.00 31.20 AAAA ATOM 170 CA PRO 22 25.034 41.185 45.395 1.00 32.84 AAAA ATOM 171 CB PRO 22 24.174 40.192 46.187 1.00 34.98 AAAA ATOM 172 CG PRO 22 23.257 39.634 45.109 1.00 30.11 AAAA ATOM 173 C PRO 22 26.554 42.272 46.916 1.00 29.17 AAAA ATOM 173 C PRO 22 26.554 42.272 46.916 1.00 29.17 AAAA ATOM 175 N LEU 23 27.415 40.644 45.629 1.00 29.17 AAAA ATOM 176 CA LEU 23 28.765 40.781 46.181 1.00 26.49 AAAA ATOM 177 CB LEU 23 29.414 39.397 46.332 1.00 22.30 AAAA ATOM 178 CG LEU 23 29.414 39.397 46.332 1.00 22.30 AAAA ATOM 179 CDI LEU 23 29.307 37.113 47.410 1.00 19.35 AAAA ATOM 179 CDI LEU 23 29.307 37.113 47.410 1.00 19.35 AAAA ATOM 180 CD2 LEU 23 28.850 39.197 48.746 1.00 25.81 AAAA ATOM 180 CD2 LEU 23 29.661 41.718 45.361 1.00 25.81 AAAA ATOM 180 CD2 LEU 23 29.661 41.718 45.361 1.00 25.81 AAAA ATOM 180 CD2 LEU 23 29.661 41.718 45.361 1.00 25.81 AAAA ATOM 180 CD2 LEU 23 29.666 41.718 42.830 1.00 27.35 AAAA ATOM 180 CD2 LEU 23 29.666 41.718 45.361 1.00 25.81 AAAA ATOM 180 CD2 LEU 23 29.666 41.718 45.361 1.00 25.81 AAAA ATOM 180 CD2 LEU 23 29.666 41.718 45.361 1.00 25.81 AAAA ATOM 180 CD2 LEU 23 29.666 41.718 45.361 1.00 25.81 AAAA ATOM 180 CD2 LEU 23 29.666 41.718 45.361 1.00 25.81 AAAA ATOM 180 CD2 LEU 23 29.666 41.718 45.361 1.00 25.81 AAAA ATOM 180 CD2 LEU 23 29.666 41.718 45.361 1.00 25.81 AAAA ATOM 180 CD2 LEU 23 29.666 41.718 45.361 1.00 25.81 AAAA ATOM 180 CD2 LEU 23 29.666 41.718 45.361 1.00 25.81 AAAA ATOM 180 CD2 LEU 23 29.666 41.718 45.719 1.00 20.95.52 AAAA ATOM 180 CD2 LEU 23 29.666 41.718 45.719 1.00 20.95.52 AAAA ATOM 180 CD2 LEU 23 20.666 41.718 45.719 1.00 20.55 AAAA ATOM 180 CD2 LEU 24 26.668 46.138 41.706 1.00 66.09 AAAA ATOM 180 CD2 LYS 24 26.668 46.138 41.706 1.00 66.09 AAAA ATOM 18						26.929	37.148	41.917	1.00 34.81	
ATOM 165 NE2 HIS 21 27.228 36.917 44.026 1.00 32.31 AAAA ATOM 166 C HIS 21 25.763 41.135 43.051 1.00 29.37 AAAA ATOM 167 O HIS 21 26.346 42.210 43.186 1.00 28.54 AAAA ATOM 168 N PRO 22 25.093 40.565 44.066 1.00 29.14 AAAA ATOM 169 CD PRO 22 24.301 39.322 44.061 1.00 31.20 AAAA ATOM 170 CA PRO 22 24.174 40.192 46.187 1.00 32.84 AAAA ATOM 171 CB PRO 22 24.174 40.192 46.187 1.00 34.98 AAAA ATOM 172 CG PRO 22 23.257 39.634 45.109 1.00 30.11 AAAA ATOM 173 C PRO 22 26.411 41.415 46.044 1.00 34.37 AAAA ATOM 174 O PRO 22 26.554 42.272 46.916 1.00 29.17 AAAA ATOM 175 N LEU 23 27.415 40.644 45.629 1.00 29.22 AAAA ATOM 176 CA LEU 23 28.765 40.781 46.181 1.00 26.49 AAAA ATOM 177 CB LEU 23 29.414 39.397 46.332 1.00 22.30 AAAA ATOM 177 CB LEU 23 29.414 39.397 46.332 1.00 22.30 AAAA ATOM 178 CG LEU 23 28.703 38.527 47.380 1.00 22.30 AAAA ATOM 179 CD1 LEU 23 29.307 37.113 47.410 1.00 19.35 AAAA ATOM 180 CD2 LEU 23 28.850 39.197 48.746 1.00 26.51 AAAA ATOM 181 C LEU 23 29.661 41.718 45.361 1.00 25.81 AAAA ATOM 181 C LEU 23 29.661 41.718 45.361 1.00 25.81 AAAA ATOM 184 CA LYS 24 29.018 42.539 44.532 1.00 24.86 AAAA ATOM 184 CA LYS 24 29.018 42.539 44.532 1.00 22.35 AAAA ATOM 184 CA LYS 24 29.018 42.539 44.532 1.00 27.35 AAAA ATOM 186 CG LYS 24 29.018 42.539 44.532 1.00 27.35 AAAA ATOM 186 CG LYS 24 29.696 43.552 42.711 1.00 28.45 AAAA ATOM 187 CD LYS 24 29.018 42.539 44.532 1.00 24.86 AAAA ATOM 186 CG LYS 24 29.696 43.552 42.711 1.00 25.95 AAAA ATOM 187 CD LYS 24 29.696 43.552 42.711 1.00 25.95 AAAA ATOM 187 CD LYS 24 29.696 44.549 42.830 1.00 27.35 AAAA ATOM 187 CD LYS 24 29.696 44.549 42.830 1.00 27.35 AAAA ATOM 189 NZ LYS 24 29.696 43.552 42.711 1.00 29.52 AAAA ATOM 189 NZ LYS 24 29.696 43.552 42.711 1.00 28.45 AAAA ATOM 187 CD LYS 24 29.696 44.696 40.244 42.830 1.00 27.35 AAAA ATOM 189 NZ LYS 24 29.696 43.552 42.711 1.00 28.45 AAAA ATOM 189 NZ LYS 24 28.662 44.244 42.830 1.00 29.52 AAAA ATOM 189 NZ LYS 24 28.666 44.244 42.830 1.00 29.52 AAAA ATOM 189 NZ LYS 24 25.595 47.137 41.896 1.00 66.09 AAAA ATOM 189 NZ LYS 24 25.595 47							36.269	42.900	1.00 17.01	AAAA
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ATOM 182 C LEU 23 30.893 41.693 45.477 1.00 28.45 AAAA ATOM 183 N LYS 24 29.018 42.539 44.532 1.00 24.86 AAAA ATOM 184 CA LYS 24 29.696 43.552 43.723 1.00 27.35 AAAA ATOM 185 CB LYS 24 28.662 44.244 42.830 1.00 28.57 AAAA ATOM 186 CG LYS 24 29.118 45.532 42.171 1.00 52.95 AAAA ATOM 187 CD LYS 24 28.025 46.603 42.283 1.00 63.74 AAAA ATOM 188 CE LYS 24 26.688 46.138 41.706 1.00 66.09 AAAA ATOM 189 NZ LYS 24 25.595 47.137 41.896 1.00 66.00 AAAA ATOM 190 C LYS 24 30.332 44.592 44.676 1.00 29.52 AAAA ATOM 191 O LYS 24 31.412 45.123 44.420 1.00 30.67 AAAA ATOM 192 N TLE 25 29.652 44.879 45.779 1.00 26.90 AAAA ATOM 193 CA TLE 25 30.151 45.865 46.738 1.00 25.02 AAAA ATOM 194 CB TLE 25 29.105 46.177 47.824 1.00 28.34 AAAA ATOM 195 CG2 ILE 25 27.961 46.951 47.237 1.00 23.84 AAAA ATOM 196 CG1 ILE 25 28.661 44.869 48.495 1.00 30.31 AAAA ATOM 197 CD1 ILE 25 28.661 44.869 48.495 1.00 30.31 AAAA ATOM 197 CD1 ILE 25 27.718 45.051 49.660 1.00 44.90 AAAA AAAA ATOM 197 CD1 ILE 25 27.718 45.051 49.660 1.00 44.90 AAAAA ATOM 198 C TLE 25 27.718 45.051 49.660 1.00 44.90 AAAAA ATOM 198 C TLE 25 27.718 45.051 49.660 1.00 44.90 AAAAA ATOM 198 C TLE 25 27.718 45.051 49.660 1.00 44.90 AAAAA ATOM 198 C TLE 25 27.718 45.051 49.660 1.00 44.90 AAAAA ATOM 198 C TLE 25 27.718 45.051 49.660 1.00 44.90 AAAAA ATOM 198 C TLE 25 27.718 45.463 47.483 1.00 32.19										AAAA
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ATOM 189 NZ LYS 24 25.595 47.137 41.896 1.00 66.00 AAAA ATOM 190 C LYS 24 30.332 44.592 44.676 1.00 29.52 AAAA ATOM 191 O LYS 24 31.412 45.123 44.420 1.00 30.67 AAAA ATOM 192 N ILE 25 29.652 44.879 45.779 1.00 26.90 AAAA ATOM 193 CA ILE 25 30.151 45.865 46.738 1.00 25.02 AAAA ATOM 194 CB ILE 25 29.105 46.177 47.824 1.00 28.34 AAAA ATOM 195 CG2 ILE 25 27.961 46.951 47.237 1.00 23.84 AAAA ATOM 196 CG1 ILE 25 28.661 44.869 48.495 1.00 30.31 AAAA ATOM 197 CD1 ILE 25 28.661 44.869 48.495 1.00 30.31 AAAA ATOM 197 CD1 ILE 25 27.718 45.051 49.660 1.00 44.90 AAAA ATOM 198 C ILE 25 31.424 45.463 47.483 1.00 32.19			CE	LYS	24	26.688	46.138			
ATOM 190 C LYS 24 30.332 44.592 44.676 1.00 29.52 AAAA ATOM 191 O LYS 24 31.412 45.123 44.420 1.00 30.67 AAAA ATOM 192 N ILE 25 29.652 44.879 45.779 1.00 26.90 AAAA ATOM 193 CA ILE 25 30.151 45.865 46.738 1.00 25.02 AAAA ATOM 194 CB ILE 25 29.105 46.177 47.824 1.00 28.34 AAAA ATOM 195 CG2 ILE 25 27.961 46.951 47.237 1.00 23.84 AAAA ATOM 196 CG1 ILE 25 28.661 44.869 48.495 1.00 30.31 AAAA ATOM 197 CD1 ILE 25 28.661 44.869 48.495 1.00 30.31 AAAA ATOM 197 CD1 ILE 25 27.718 45.051 49.660 1.00 44.90 AAAA ATOM 198 C ILE 25 31.424 45.463 47.483 1.00 32.19					24	25.595	47.137	41.896	1.00 66.00	
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ATOM 191 0 ILS 25 29.652 44.879 45.779 1.00 26.90 AAAA ATOM 193 CA ILE 25 30.151 45.865 46.738 1.00 25.02 AAAA ATOM 194 CB ILE 25 29.105 46.177 47.824 1.00 28.34 AAAA ATOM 195 CG2 ILE 25 27.961 46.951 47.237 1.00 23.84 AAAA ATOM 196 CG1 ILE 25 28.661 44.869 48.495 1.00 30.31 AAAA ATOM 197 CD1 ILE 25 27.718 45.051 49.660 1.00 44.90 AAAA ATOM 198 C ILE 25 31.424 45.463 47.483 1.00 32.19										
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ATOM 194 CB ILE 25 27.103 40.17 47.237 1.00 23.84 AAAA ATOM 195 CG2 ILE 25 28.661 44.869 48.495 1.00 30.31 AAAA ATOM 197 CD1 ILE 25 27.718 45.051 49.660 1.00 44.90 AAAA ATOM 198 C ILE 25 31.424 45.463 47.483 1.00 32.19										
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ATOM 197 CD1 ILE 25 27.718 45.051 45.660 1.00 44.50 AAAA		196								
198 C ILE 25 31.424 45.463 47.483 1.00 32.19 AAAA			CD1	LILE				·		
			С	ILE	25	31.424	45.463	4/.483	1.00 32.19	

							_		
MOTA	199	0	ILE	25	31.736	44.271	47.623	1.00 26.54	AAAA
ATOM	200	N	PRO	26	32.191	46.463	47.956	1.00 30.14	አልልአ
			PRO	26	31.979	47.907	47.770	1.00 36.38	AAAA
MOTA	201	CD							
MOTA	202	CA	PRO	26	33.431	46.241	48.707	1.00 30.63	AAAA
MOTA	203	CB	PRO	26	34.014	47.652	48.814	1.00 34.29	AAAA
ATOM -	204	CG	PRO	26	33.397	48.373	47.617	1.00 43.39	AAAA
					32.943	45.727	50.061	1.00 25.99	AAAA
MOTA	205	C	PRO	25					
MOTA	206	0	PRO	26	31.854	46.110	50.484	1.00 25.51	AAAA
MOTA	207	N	ARG	27	33.719	44.880	50.743	1.00 21.98	AAAA
MOTA	208	CA	ARG	27	33.267	44.347	52.035	1.00 26.17	AAAA
				27	32.641	42.969	51.834	1.00 22.70	AAAA
MOTA	209	CB	ARG						
MOTA	210	CG	ARG	27	31.442	43.039	50.890	1.00 26.75	AAAA
ATOM	211	CD	ARG	27	30.832	41.672	50.581 -	1.00 33.22	AAAA
ATOM	212	NE	ARG	27	30.121	41.098	51.716	1.00 28.66	AAAA
	213	CZ	ARG	27	30.582	40.129	52.503	1.00 31.79	AAAA
MOTA						39.598	52.290		- AAAA
MOTA	214	•	ARG	27	31.778			1.00 34.08	
MOTA	215	NH2	ARG	27	29.833	39.688	53.505	1.00 26.16	AAAA
ATOM	216	Ç	ARG	27	34.358	44.297	53.090	1.00 24.10	AAAA
ATOM	217	0	ARG	27	34.326	45.074	54.038	1.00 23.50	AAAA
				28	35.314	43.390	52.960	1.00 21.45	AAAA
MOTA	218	N	VAL						
MOTA	219	CA	VAL	28	36.385	43.385	53.953	1.00 21.75	AAAA
ATOM	220	CB	VAL	28	37.221	42.101	53.866	1.00 26.55	AAAA
ATOM	221	CG1	VAL	28	38.407	42.177	54.830	1.00 23.84	AAAA
			VAL	28	36.337	40.906	54.214	1.00 19.20	AAAA
MOTA	222								
MOTA	223	С	VAL	28	37.277	44.611	53.736	1.00 20.86	AAAA
ATOM	224	0	VAL	28	37.770	45.223	54.702	1.00 25.15	AAAA
MOTA	225	N	SER	29	37.480	44.996	52.475	1.00 19.22	AAAA
	226	CA	SER	29	38.320	46.169	52.209	1.00 19.63	AAAA
MOTA						46.352	50.702	1.00 24.45	AAAA
MOTA	227	CB	SER	29	38.591				
MOTA	228	OG	SER	29	37.411	46.697	49.984	1.00 28.74	аааа
ATOM	229	С	SER	29	37.579	47.381	52.756	1.00 21.50	AAAA
ATOM	230	0	SER	29	38.184	48.320	53.271	1.00 18.95	AAAA
			LEU	30	36.256	47.353	52.673	1.00 19.56	AAAA
MOTA	231	N							
MOTA	232	CA	LEU	30	35.499	48.481	53.177	1.00 25.97	AAAA
ATOM	233	CB	LEU	30	34.032	48.396	52.744	1.00 22.90	AAAA
ATOM	234	CG	LEU	30	33.085	49.541	53.157	1.00 26.62	AAAA
MOTA	235		LEU	30	32.885	49.539	54.648	1.00 38.27	AAAA
					33.653	50.885	52.698	1.00 25.71	AAAA
MOTA	236		LEU	30					
ATOM	237	С	LEU	30	35.604	48.509	54.696	1.00 18.44	AAAA
MOTA	. 238	0	LEU	30	35.704	49.580	55.273	1.00 25.05	AAAA
ATOM	239	N	LEU	31	35.578	47.336	55.336	1.00 19.65	AAAA
			LEU	31	35.672	47.270	56.797	1.00 20.47	AAAA
MOTA	240	CA						·	
ATOM	241	CB	LEU	31	35.613	45.821	57.300		AAAA
MOTA	242	CG	LEU	31	34.988	45.456	58.665	1.00 39.80	AAAA
ATOM	243	CD1	LEU	31	35.712	44.219	59.257	1.00 23.99	AAAA
ATOM	244		LEU	31	35.085	46.591	59.637	1.00 28.48	AAAA
								1.00 23.85	AAAA
MOTA	245	C	LEU	31	37.009	47.870	57.229		
ATOM	246	0	LEU	31	37.070	48.673	58.154	1.00 21.24	AAAA
ATOM	247	N	LEU	32	38.079	47.462	56.562	1.00 23.91	АААА
ATOM	248	CA	LEU	32	39.400	47.965	56.899	1.00 24.82	AAAA
	249	СВ	LEU	32	40.479	47.320	56.018	1.00 24.81	AAAA
MOTA								1.00 27.00	AAAA
ATOM	250	CG	LEU	32	40.849	45.854	56.276		
MOTA	251	CD1	LEU	32	41.995	45.435	55.354	1.00 27.13	ሕ ጸ ጹ
MOTA	. 252	CD2	LEU	32	41.285	45.687	57.720	1.00 34.49	AAAA
		c	LEU	32	39.466	49.475	56.763	1.00 19.56	AAAA
MOTA	253						57.662	1.00 20.71	AAAA
MOTA	254	0	LEU	32	39.958	50.143			
ATOM	255	N	ARG	33	38.974	50.006	55.645	1.00 23.25	AAAA
ATOM		· CA	ARG	33	39.007	51.449	55.441	1.00 24.33	AAAA
	257	CB	ARG	33	38.575	51.806	54.013	1.00 23.46	AAAA
MOTA					39.571	51.327	52.945	1.00 26.94	AAAA
ATOM	258	CG	ARG	33					
ATOM	259	CD	ARG	33	39.337	51.976	51.585	1.00 42.13	AAAA
ATOM	260	NE	ARG	33	38.023	51.661	51.037	1.00 59.06	AAAA
ATOM	261	CZ	ARG	33	37.583	52.088	49.857	1.00 60.87	AAAA
				33	38.353	52.850	49.095	1.00 65.33	ÄÄÄÄ
ATOM	262		ARG						AAAA
ATOM	263		ARG	33	36.373	51.743	49.433	1.00 56.24	
MOTA	264	С	ARG	33	38.124	52.156	56.455	1.00 30.33	AAAA
							•		•

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		Fig	ure 16-5				
•		- 22	38.441	53.252	56.905 1	1.00 25.45	AAAA
ATOM	265 O ARC				56.828	1.00 24.98	AAAA
MOTA	266 N PHI			52.085	57.789	1.00 27.09	AAAA
MOTA	267 CA PHI	-		51.276	57.807	1.00 24.88	AAAA
MOTA	268 CB PH		33.719	51.898	58.631	1.00 20.46	AAAA
MOTA	269 CG PH	-		53.018		1.00 18.74	AAAA
MOTA	270 CD1 PH		33.396	51.383		1.00 20.19	AAAA
MOTA	271 CD2 PH			53.627	58.956	1.00 23.04	AAAA
MOTA	272 CE1 PH	-			• • • • •	1.00 25.08	AAAA
MOTA	273 CE2 PH 274 CZ PH		31.726	53.104	• • • -	1.00 23.31	AAAA AAAA
MOTA			36.709	52.115		1.00 23.93	AAAA
MOTA		_	36.668	53.138		1.00 21.71	AAAA
MOTA	•		37.298	51.013		1.00 21.33	AAAA
MOTA	277 N LY 278 CA LY	<u>-</u>	37.862	51.084		1.00 22.54 1.00 29.70	AAAA
MOTA	279 CB LY		38.276	49.716		1.00 29.48	AAAA
MOTA	280 CG LY		37.082	48.890	61.924	1.00 23.43	AAAA
MOTA	281 CD LY		37.517	47.535	62.398	1.00 42.17	AAAA
MOTA MOTA	282 CE LY	rs 35	38.157	46.762	61.275 60.719	1.00 67.18	AAAA
MOTA	283 NZ LY	rs 35	39.372	47.412	61.040	1.00 24.68	AAAA
MOTA	284 C LY	rs 35	39.027	52.055	62.085	1.00 22.33	AAAA
MOTA	285 O LY	rs 35	39.282	52.640	59.926	1.00 25.67	AAAA
ATOM	286 N AS	SP 36	39.724	52.231	59.898	1.00 25.57	AAAA
ATOM	287 CA AS	SP 36	40.842	53.163 52.984	58.621	1.00 32.26	AAAA
ATOM	288 CB AS		41,669	53.914	58.572	1.00 33.92	AAAA
ATOM		SP 36	42.881	53.969	59.563	1.00 40.22	AAAA
ATOM	290 OD1 A		43.641 43.078	54.575	57.538	1.00 40.06	AAAA
ATOM	291 OD2 A		40.285	54.578	59.973	1.00 28.04	AAAA
ATOM		sp 36	40.761	55.397	60.765	1.00 29.52	AAAA
MOTA		sp 36	39.272	54.864	59.159	1.00 23.32	AAAA
MOTA		LA 37 LA 37	38.651	56.192	59.163	1.00 28.22	AAAA
MOTA	272		37.506	56.251	58.119	1.00 25.93	AAAA AAAA
MOTA		LA 37 LA 37	38.127	56.549	60.565	1.00 28.41	AAAA
MOTA		LA 37	38.186	57.708	60.972	1.00 29.27	AAAA
MOTA		ET 38	37.639	55.547	61.300	1.00 24.76 1.00 25.45	AAAA
MOTA		ET 38	37.103	55.727	62.669	1.00 25.45	AAAA
MOTA		ET 38	36.077	54.625	62.982	1.00 23.13	AAAA
MOTA MOTA		ET 38	34.816	54.660	62.148	1.00 29.90	AAAA
ATOM		ET 38	33.733	55.983	62.702 64.376	1.00 26.51	AAAA
MOTA		ET 38	33.402	55.417 55.667		1.00 26.42	AAAA
MOTA		ÆT 38	38.203	55.818		1.00 23.77	AAAA
ATOM	-306 €	1ET 38	37.924	55.434		1.00 26.21	AAAA
MOTA		ASN 39	39.437	55.308		1.00 28.53	AAAA
ATOM		ASN 39	40.607 40.926	56.643		1.00 33.95	AAAA
ATOM		SN 39	41.153	57.751		1.00 29.46	AAAA
ATOM		ASN 39 ASN 39	41.930	57.596		1.00 36.28	AAAA
MOTA	311 OD1 2		40.472	58.880		1.00 40.03	AAAA
MOTA	312 ND2		40.374		65.205		AAAA AAAA
ATOM			40.682		66.395		AAAA
ATOM	·	ASN 39 LEU 40	39.814		54.744		AAAA
ATOM		LEU 40	39.527	51.984			AAAA
ATOM		LEU 40	38.060		65.514		AAAA
MOTA		LEU 40	37.044	52.585	66.036		AAAA
ATOM	319 CD1		35.637		65.894		AAAA
MOTA	320 CD2		37.325		67.491		AAAA
MOTA		LEU 40	40.433				AAAA
MOTA MOTA		LEU 40	40.157				AAAA
MOTA	323 N	ILE 41	41.528				AANA
ATOM	324 CA	ILE 41	42.459		_		AAAA
ATOM	325 CB	ILE 41	42.010				AAAA
MOTA	326 CG2	ILE 41	42.06			B 1.00 31.01	AAAA
ATOM	327 CG1		42.91° 42.89			1 1.00 42.18	AAAA
ATCM	328 CD1		43.90			7 1.00 24.09	AAAA
ATOM	329 C	ILE 41	44.12		•		AAAA
ATOM	330 0	ILE 41	44.70		-		•
	•						

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			44 056	49.634	64.787	1.00 28.95	AAAA
ATOM	331 N ASP	42	44.866	-	64.638	1.00 32.52	AAAA
MOTA	332 CA ASP	42	46.279	49.988	• •	1.00 34.24	AAAA
MOTA	333 CB ASP	42	46.951	50.094	• • • •	1.00 34.24	AAAA
ATOM	334 CG ASP	42	46.267	51.097		1.00 51.23	
	335 OD1 ASP	42	46.079	52.250	66.467	1.00 50.19	AAAA
MOTA		42	45.924	50.736	68.062	1.00 53.00	AAAA
ATOM	• • • •	42	46.985	48.919	63.808	1.00 31.13	AAAA
MOTA	337 C ASP		46.594	47.758	63.838	1.00 26.71	AAAA
ATOM	338 O ASP	42	48.036	49.312	63.092	1.00 29.99	AAAA
ATOM	339 N GLU	43 .			62.240	1.00 31.34	AAAA
MOTA	340 CA GLU	43	48.793	48.392	61.724	1.00 36.12	AAAA
ATOM	341 CB GLU	43	50.078	49.045		1.00 52.72	AAAA
ATOM	342 CG GLU	43	49.886	50.118	60.676	1.00 52.72	AAAA
ATOM	343 CD GLU	43	51.214	50.556	60.083	1.00 60.39	AAAA
	344 OE1 GLU	43	51.928	49.688	59.536	1.00 70.32	
MOTA	345 OE2 GLU	43	51.550	51.755	60.163	1.00 60.38	AAAA
MOTA	=	43	49.196	47.070	62.859	1.00 38.04	AAAA
ATOM .		43	49.125	46.024	62.209	1.00 36.83	AAAA
MOTA	347 O GLU		49.636	47.103	64.105	1.00 28.26	AAAA
ATOM	348 N LYS	44	50.084	45.879	64.740	1.00 32.71	AAAA
MOTA	349 CA LYS	44		46.245	65.927	1.00 44.28	AAAA
MOTA	350 CB LYS	44	50.974		65.418	1.00 59.37	AAAA
ATOM	351 CG LYS	44	52.211	47.007		1.00 68.87	AAAA
ATOM	352 CD LYS	44	53.187.		66.491	1.00 67.21	AAAA.
MOTA	353 CE LYS	44	54.373	48.167	65.849	1.00 67.21	AAAA
	354 NZ LYS	44	55.361		66.850	1.00 74.00	
MOTA	355 C LYS	44	48.982	44.889	65.115	1.00 26.75	AAAA
MOTA		44	49.265	43.792	65.586	1.00 27.37	AAAA
MOTA	• • •	45	47.731	45.278	64.881	1.00 29.20	AAAA
MOTA	357 N GLU	45	46.580	44.414	65.165	1.00 21.58	AAAA
MOTA	358 CA GLU		45.387	45.243	65.676	1.00 18.24	AAAA
MOTA	359 CB GLU	45	45.551	45.828	67.077	1.00 26.57	AAAA
MOTA	360 CG GLU	45		46.772	67.453	1.00 23.12	AAAA
MOTA	361 CD GLU	45	44.418	47.783	66.746	1.00 21.64	AAAA
ATOM	362 OE1 GLU	45	44.224		68.454	1.00 26.48	AAAA
ATOM	363 OE2 GLU	45	43.725	46.509	63.870	1.00 26.31	AAAA
ATOM	364 C GLU	45 -	46.163	43.710		1.00 22.32	AAAA
ATOM	365 O GLU	45	45.400	42.739	63.889	1.00 22.32	AAAA
ATOM	366 N LEU	46	46.674	44.204	62.748	1.00 25 20	AAAA
ATOM	367 CA LEU	46	46.317	43.642	61.448	1.00 25.80	AAAA
	368 CB LEU	46	46.137	44:774	60.433	1.00 27.25	
ATOM	369 CG LEU	46	45.763	44.397	58.997	1.00 37.72	AAAA
MOTA	370 CD1 LEU	46	44.356	43.810	58.984	1.00 39.46	AAAA
ATOM	_	46	45.822	45.632	58.101	1.00 35.43	AAAA
MOTA	• • • • • • • • • • • • • • • • • • • •	46	47.305	42.623	60.896	1.00 28.88	AAAA
MOTA	372 C LEU	46	48.513	42.860	60.862	1.00 31.98	AAAA
MOTA	373 O LEU		46.791	41.469		1.00 16.92	AAAA
ATOM	374 N ILE	47	47.638	40.448		1.00 20.98	AAAA ·
MOTA	375 CA ILE	47	47.030	39.046		1.00 21.51	AAAA
ATOM	376 CB ILE	47	47.412	•		1.00 20.32	AAAA
MOTA	377 CG2 ILE	47	48.115			1.00 20.71	AAAA
ATOM	378 CG1 ILE	47	47.947			1.00 38.87	AAAA
ATOM	379 CD1 ILE	47	49.450		62.052		AAAA
ATOM	380 C ILE	47	47.227	40.417			AAAA
ATOM	381 O ILE	47	46.036				AAAA
	382 N LYS	48	48.195	40.550			
ATOM	-	48	47.883		56.072		AAAA
ATOM		48	49.095		. 55.239	1.00 16.52	AAAA
MOTA	384 CB LYS	48	48.836			1.00 23.25	AAAA
MOTA	385 CG LYS		50.072				AAAA
MOTA	386 CD LYS	48	49.796	41.496			aaaa
ATOM	387 CE LYS	18					AAAA
MOTA	388 NZ LYS	18	48.704	_			AAAA
ATOM	389 C LYS	÷ 8	47.473				AAAA
ATOM	390 0 LYS	48	48.177				AAAA
ATOM	391 N SER	19	46.343	39.049			AAAA
	392 CA SER	49	45.838	37.780			AAAA
ATOM	393 CB SER	49	44.517	7 37.984			
ATOM		49	43.509			1.00 16.86	AAAA AAAA
ATOM		49	46.810		1 53.459		AAAA
ATOM	395 C SER	49	47.46			1.00 19.59	AAAA
ATOM	396 O SER		<u> </u>		-		•
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3 TOM	397	N	ARG	50	46.890	35.805	53.519	1.00 16.83	AAAA
ATOM					47.724	35.037	52.610	1.00 23.88	AAAA
ATOM	398		ARG	50			53.366	1.00 27.48	AAAA
ATOM	399	CB	ARG	50	48.805	34.247			
ATOM	400	CG	ARG	50	48.284	33.036	54.177	1.00 22.99	AAAA
ATOM	401	CD	ARG	50	49.453	32.263	54.759	1.00 25.20	AAAA
	402		ARG	50	49.073	31.197	55.684	1.00 15.88	AAAA
ATOM				50	48.411	30.093	55.368	1.00 14.34	AAAA
ATOM	403	-	ARG			29.863	54.117	1.00 15.78	AAAA
ATOM	404		ARG	50	48.023		-	1.00 16.78	AAAA
ATOM	405	NH2	ARG	. 50	48.150	29.197	56.312		•
ATOM	406	С	ARG	50	46.821	34.023	51.905	1.00 20.20	AAAA
ATOM	407		ARG	50 -	45.763	33.650	52.414	1.00 18.63	AAAA
	408	N	PRO	51	47.203	33.596	50.699	1.00 15.63	AAAA
MOTA				51	48.322	34.028	49.850	1.00 19.45	AAAA
MOTA	409	CD	PRO				49.994	1.00 14.35	AAAA
ATOM	410	CA	PRO	51	46.387	32.606		1.00 17.73	AAAA
ATOM	411	CB	PRO	51	47.076	32.514	48.629		
ATOM	412	CG	PRO	51	47.707	33.890	48.47-5	1.00 17.62	AAAA
MOTA	413	С	PRO	51	46.452	31.256	50.708	1.00 15.73	AAAA
MOTA	414	ō	PRO	51	47.460	30.942	51.350	1.00 18.67	AAAA
			ALA	52	45.377	30.470	50.618	1.00 11.47	AAAA
ATOM	415	N			45.375	29.117	51.161	1.00 9.78	AAAA
MOTA	416	CA	ALA	52				1.00 12.19	AAAA
ATOM	417	CB	ALA	52	43.967	28.529	51.112		
MOTA	418	С	ALA	52	46.301	28.342	50.209	1.00 17.19	AAAA
ATOM	419	0	ALA	52	46.307	28.609	49.006	1.00 16.46	AAAA
ATOM	420	N	THR	53	47.081	27.392	50.723	1.00 16.40	AAAA
			THR	53	47.952	26.615	49.843	1.00 16.32	AAAA
ATOM	421	CA			49.109	25.959	50.612	1.00 15.82	AAAA
atom	422	CB	THR	53			51.559	1.00 16.25	AAAA
ATOM	423	OG1	THR		48.582	25.016			AAAA
ATOM	424	CG2	THR	53	49.923	27.030	51.336	1.00 14.34	
ATOM	425	С	THR	53	47.104	25.520	49.215	1.00 14.06	AAAA
ATOM	426	0	THR	53	46.012	25.241	49.690	1.00 17.87	AAAA
ATOM	427	Ŋ	LYS	54	47.599	24.903	48.145	1.00 16.10	AAAA
			LYS	54	46.848	23.832	47.492	1.00 19.00	AAAA
MOTA	428	CA			47.671	23.245		1.00 22.92	AAAA
MOTA	429	CB	LYS	54			45.539	1.00 32.99	AAAA
MOTA	430	,CG	LYS	54	46.955	22.172		1.00 52.33	AAAA
ATOM	431	CD	LYS	54	45.787	22.733	44.757		
MOTA	432	CE	LYS	54	46.244	23.565	43.561	1.00 64.17	AAAA
ATOM	433	NZ	LYS	54	46.898	22.733	42.505	1.00 63.45	AAAA
	434	C	LYS	54	46.554	22.738	48.520	1.00 22.48	AAAA
MOTA			LYS	54	45.463	22.158	48.555	1.00 19.97	AAAA
MOTA	435	0			47.536	22.465	49.364	1.00 25.65	AAAA
MOTA	436	N	GLU	55			50.383	1.00 25.08	AAAA
ATOM	437	CA	GLU	55	47.389	21.432			AAAA
ATOM	438	CB	GLU	55 .	48.718	21.241	51.116	1.00 25.40	
ATOM	439	CG	GLU	55	48.703	20.185	52.199	1.00 48.95	AAAA
ATOM	440	CD	GLU	5 5	50.106	19.821	52.673	1.00 64.21	AAAA
	441		GLU	55	50.220	19.033	53.640	1.00 62.38	AAAA
ATOM				55	51.093	20.311	52.073	1.00 58.22	AAAA
ATOM	42		GLU		46.273	21.773	51.362	1.00 18.91	AAAA
MOTA	.43	С	GLU	55			51.723	1.00 17.43	AAAA
ATOM	-44	0	GLU	55	45.489	20.908			AAAA
ATOM	445	N	GLU	56	46.196	23.029	51.786	1.00 16.80	
MOTA	446	CA	GLU	56	45.137	23.432	52.698	1.00 17.24	AAAA
ATOM	447	CB	GLU	56	45.399	24.855	53.204	1.00 16.15	AAAA
			GLU	56	46.709	24.941	54.009	1.00 14.41	AAAA
ATOM	448	CG			47.087	26.354	54.358	1.00 20.17	AAAA
MOTA	449	CD	GLU	56				1.00 17.12	AAAA
MOTA	450	OEl	GLU	56	46.713	27.252	53.567	1.00 17.12	AAAA
ATOM	451	OE2	GLU	56	47.773	26.564	55.394	1.00 18.23	
ATOM	452	С	GLU	56	43.781	23.313	52.000	1.00 15.95	AAAA
	453	ō	GLU	56	42.799	22.869	52.599	1.00 17.82	AAAA
ATOM				57	43.722	23.691	50.725	1.00 17.53	AAAA
ATOM	454	И	LEU		42.466	23.579	49.989	1.00 16.34	AAAA
ATOM	455	CA	LEU	57				1.00 13.86	AAAA
ATOM	456	CB	LEU	57	42.591	24.177	48.586		
ATOM	457	CG	LEU	5 7	42.773	25.707	48.552	1.00 15.24	AAAA
ATOM	458		LEU	57	42.923	26.182	47.101	1.00 19.30	AAAA
	459		LEU	57	41.546	26.380	49.207	1.00 15.14	AAAA
ATOM				57	42.016			1.00 18.46	AAAA
ATOM	460	C	LEU		40.824			1.00 17.27	AAAA
ATOM	461	0	LEU	57 50		21.023		1.00 16.43	AAAA
ATOM	462	N	LEU	58	42.975	21.234	47.006	7.00 10.43	,
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MOTA	463	CA	LEU	58	42.662	19.822	49.475	1.00 15.18	AAAA
ATOM	464	CB	LEU	58	43.788	19.113	48.727	1.00 16.09	AAAA
atom	465	CG	LEU	58	44.029	19.682	47.321	1.00 21.72	AAAA
ATOM	466		LEU	58	45.221	18.982	46.680	1.00 31.92	AAAA
ATOM	467	CD2	LEU	58	42.786	19.549	46.469	1.00 34.38	AAAA
MOTA	468	С	LEU	58	42.339	19.116	50.787	1.00 21.19	AAAA
ATOM	469	ō	LEU	58	42.067	17.914	50.795	1.00 20.40	AAAA
					42.377		51.896	1.00 13.50	
ATOM	470	N	LEU	59		19.849			AAAA
MOTA	471	CA	LEU	59	41.958	19.261	53.173	1.00 15.58	AAAA
ATOM	472	CB	LEU	59	42.182	20.236	54.339	1.00 18.98	AAAA
ATOM	473	CG	LEU	59	43.619	20.537	54.774	1.00 22.57	AAAA
ATOM	474	CD1	LEU	59	43.640	21.654	55.808	1.00 19.88	AAAA
ATOM	475		LEU	59· ·	44.255	19.253	55.339	1.00 26.71	AAAA
	476		LEU	59	40.446	18.979	53.043	1.00 17.55	AAAA
ATOM		C							
ATOM	477	0	LEU	59	39.897	18.112	53.724	1.00 18.02	AAAA
MOTA	478	N	PHE	60	39.766	19.737	52.179	1.00 14.64	- AAAA
ATOM	479	CA	PHE	60	38.338	19.536	51.970	1.00 18.17	AAAA
MOTA	480	CB	PHE	60	37.519	20.694	52.557	1.00 18.80	AAAA
ATOM	481	CG	PHE	60	36.028	20.564	52.316	1.00 15.94	AAAA
ATOM	482		PHE	60	35.320	19.476	52.817	1.00 19.98	AAAA
			PHE	60	35.339	21.524	51.576	1.00 18.09	AAAA
ATOM	483								
MOTA	484		PHE	60	33.947	19.338	52.587	1.00 18.72	AAAA
$MOT\mathcal{A}$	485	CE2	PHE	60	33.964	21.399	51.338	1.00 19.19	AAAA
ATOM	486	CZ	PHE	60	33.268	20.295	51.850	1.00 18.43	AAAA
ATOM	487	С	PHE	60	37.916	19.337	50.510	1.00 16.45	AAAA
ATOM	488	ō	PHE	60	37.227	18.371	50.179	1.00 19.18	AAAA
ATOM	489	N	HIS	61	38.308	20.257	49.638	1.00 18.26	AAAA
					37.913	20.163		1.00 14.47	AAAA
ATOM	490	CA	HIS	61			48.235		
ATOM	491	CB	HIS	61	38.004	21.545	47.582	1.00 17.15	AAAA
MOTA	492	CG	HIS	61	36.968	22.494	48.084	1.00 14.20	AAAA
MOTA	493	CD2	HIS	61	35.645	22.580	47.816	1.00 11.05	AAAA
ATOM	494	ND1	HIS	61	37.237	23.477	49.012	1.00 23.25	AAAA
ATOM	495	CE1	HIS	61	36.121	24.131	49.291	1.00 13.35	AAAA
ATOM	496		HIS	61	35.143	23.606	48.579	1.00 21.07	AAAA
ATOM	497	C	HIS	61	38.695	19.157	47.417	1.00 18.29	AAAA
									AAAA
ATOM	498	0	HIS	61	39.828	18.819	47.761	1.00 17.50	
ATOM	499	N	THR	62	38.071	18.658	46.346	1.00 15.39	AAAA
ATOM	500	CA	THR	62	38.741	17.686	45.473	1.00 19.02	AAAA
MOTA	501	CB	THR	62	37.734	16.767	44.756	1.00 19.61	AAAA
ATOM	502	OG1	THR	62	36.795	17.548	44.006	1.00 22.05	AAAA
ATOM	503	CG2	THR	62	36.995	15.925	45.767	1.00 28.99	AAAA
MOTA	504	C	THR	62	39.595	18.398	44.440	1.00 23.22	AAAA
ATOM	505	ō	THR	62	39.311	19.532	44.044	1.00 17.47	AAAA
				63	40.657	17.732	44.009	1.00 18.94	AAAA
ATOM	506	11	GLU						
ATOM	507	CA	GLU	63	41.571	18.324	43.046	1.00 22.44	AAAA
ATOM	508	CB	GLU	63	42.736			1.00 28.31	AAAA
ATOM	509	CG	GLU	63	43.885	17.476	43.708	1.00 60.37	AAAA
ATOM	510	CD	GLU	63	45.154	16.893	43.115	1.00 55.08	AAAA
ATOM	511	OE1	GLU	63	45.603	17.407	42.065	1.00 66.44	AAAA
ATOM	512		GLU	63	45.697	15.927	43.694	1.00 71.72	AAAA
		C	GLU	63	40.983	18.764	41.730	1.00 18.63	AAAA
ATOM	513							1.00 18.37	AAAA
atom	514	0	GLU	63	41.340	19.827	41.228		
MOTA	515	N	ASP	64	40.108	17.943	41.153	1.00 19.77	AAAA
ATCM	515	CA	ASP	64	39.508	18.277	39.864	1.00 17.88	AAAA
ATOM	517	CB	ASP	64	38.584	17.159	39.372	1.00 20.43	AAAA
ATOM	518	CG	ASP	64	37.429	16.884	40.330	1.00 42.71	AAAA
ATOM	519		ASP	64	36.415	16.291	39.899	1.00 45.01	AAAA
	520		ASP	64	37.537	17.243	41.521	1.00 51.77	AAAA
ATOM					38.701	19.582	39.964	1.00 21.90	AAAA
ATOM	521	C	ASP	64					
ATOM	522	၁	ASP	64	38.726	20.410	39.042	1.00 17.35	AAAA
ATOM	523	N	TYR	65	37.980	19.750	41.072	1.00 16.17	АДДА
ATOM	524	CA	TYR	65	37.178	20.957	41.292	1.00 15.62	aaaa
ATOM	525	CB	TYR	65	36.258	20.796	42.529	1.00 12.04	KAAA
ATOM	526	CG	TYR	65	35.501	22.065	42.886	1.00 12.23	AAAA
	527		TYR	65	34.699	22.718	41.940	1.00 14.73	AAAA
ATOM				65	34.028	23.910	42.253	1.00 14.73	AAAA
ATOM	528	CEl	TYR	0.0	J4.U20	-J.71U	46.433	1.00 10.23	

					25 600	22 631	44 153	1.00 13.67	AAAA
ATOM	529		TYR	65	35.609	22.631	44.163	1.00 18.16	AAAA
ATOM	530	CE2	TYR	65	34.943	23.824	44.486	1.00 16.88	AAAA
MOTA	531	CZ	TYR	65	34.162	24.461	43.533		AAAA
ATOM	532	OH	TYR	65	33.555	25.665	43.837	1.00 14.59	AAAA
ATOM	533	С	TYR	65	38.090	22.177	41.459	1.00 15.27	
ATOM	534	0	TYR	65	37.882	23.189	40.798	1.00 15.96	AAAA
ATOM	535	N	ILE	66	39.098	22.073	42.321	1.00 14.29	AAAA
ATOM	536	CA	ILE	66	40.022	23.179	42.540	1.00 18.86	AAAA
ATOM	537	CB	ILE	66	41.090	22.836	43.617	1.00 15.56	AAAA
	538	CG2	ILE	66	42.152	23.943	43.698	1.00 20.45	AAAA
ATOM ATOM	539		ILE	66	40.405	22.659	44.967	1.00 19.68	AAAA
	540	CD1	ILE	66	39.717	23.948	45.454	1.00 29.11	AAAA
ATOM	541	C	ILE	66	40.716	23.519	41.236	1.00 25.20	AAAA
ATOM	542	0	ILE	66	40.809	24.692	40.895	1.00 14.60	AAAA
MOTA			ASN	67	41.190	22.508	40.498	1.00 18.21	AAAA
ATOM	543	N	ASN	67	41.879	22.789	39.236	1.00 20.03	AAAA
MOTA	544	CA	ASN	67	42.448	21.523	38.580	1.00 21.73	AAAA
ATOM	545	CB		67	43.645	20.954	39.333	1.00 21.69	AAAA
ATOM	546	CG	ASN	67	44.293	21.645	40.110	1.00 23.97	AAAA
ATOM	547		ASN	67	43.947	19.692	39.086	1.00 23.23	AAAA
ATOM	548		ASN	67	40.970	23.500	38.250	1.00 15.87	AAAA
MOTA	549	С	ASN		41.431	24.347	37.473	1.00 18.64	AAAA
MOTA	550	0	ASN	67	39.681	23.180	38.295	1.00 16.55	AAAA
ATOM	551	N	THR	68	38.729	23.814	37.400	1.00 20.34	AAAA
MOTA	552	CA	THR	68	37.360	23.114	37.441	1.00 22.99	AAAA
MOTA	553	CB	THR	68	37.511	21.760	36.978	1.00 21.75	AAAA
MOTA	554	OG1	THR	68		23.827	36.536	1.00 17.37	AAAA
ATOM	555	CG2	THR	68	36.378		37.755	1.00 16.66	AAAA
MOTA	556	С	THR	68 .	38.561	25.291 26.139	36.871	1.00 18.79	AAAA
ATOM	557	0	THR	68	38.472	25.604	39.045	1.00 14.82	AAAA
ATOM	558	И	LEU	69	38.534		39.447	1.00 15.20	AAAA
ATOM	559	CA	LEU	69	38.405	27.000	40.973	1.00 16.87	AAAA ·
ATOM	560	CB	LEU	69	38.295	27.126	41.666	1.00 14.76	AAAA
MOTA	561	CG	LEU	69	37.057	26.551	43.179	1.00 16.81	AAAA
MOTA	562		LEU	69	37.212	26.643	41.217	1.00 17.26	AAAA
ATOM	563	CD2	LEU	69	35.832	27.312	38.969	1.00 15.11	AAAA
MOTA	564	С	LEU	69	39.623	27.796	38.504	1.00 13.30	AAAA
ATOM	565	0	LEU	69	39.500	28.934	39.090	1.00 13.40	AAAA
MOTA	566	N	MET	70	40.803	27.204	38.659	1.00 16.97	AAAA
ATOM	567	CA	MET	70	42.019	27.894	39.075	1.00 14.87	AAAA
ATOM .	568	CB	MET	70	43.254	27.114 26.886	40.582	1.00 15.18	AAAA
MOTA	569	CG	MET	70	43.335		41.060	1.00 28.71	AAAA
MOTA	570	SD	ET	70	44.828	25.954	40.893	1.00 21.19	AAAA
ATOM	571	CE	MET	70	46.051	27.228	37.155	1.00 19.11	AAAA
MOTA	572	С	MET	70	42.064	28.119	36.700	1.00 17.10	AAAA
ATOM	573	0	MET	70	42.498	29.170 27.118	36.389	1.00 15.06	AAAA
ATOM	. 574	N	GL	71	41.648		34.934	1.00 16.12	AAAA
ATOM	575	CA	GLU	71	41.651	27.226	34.305	1.00 16.12	AAAA
ATOM	576	CB	GLU	71	41.397	25.856	32.800	1.00 20.26	AAAA
MOTA	577	CG	GLU	71	41.387	25.882	32.193	1.00 32.31	AAAA
MOTA	578	CD	GLU	71	42.782	25.920	30.958	1.00 27.07	AAAA
ATOM	579		GLU	71	42.893	25.741		1.00 24.85	AAAA
MOTA	580	OE2	GLU	71	43.762	26.117	32.941	1.00 16.48	AAAA
MOTA	581	C	GLU	71	40.580	28.208	34.466	1.00 17.20	AAAA
MOTA	- 582	0	GLU	71	40.831	29.066	33.611	1.00 17.20	AAAA
ATOM	583	N	ALA	72	39.380	28.097	35.027	1.00 15.00	AAAA
MOTA	584	CA	ÄLÄ	72	38.300	28.998		1.00 17.21	AAAA
ATOM	585	CB	ΑiΑ	72	37.035	28.669			AAAA
MOTA	586	С	ALA	72	38.678				AAAA
ATOM	587	0	ALA	72	38.448				AAAA
ATOM	588	N	GLU	73	39.260				AAAA
ATOM	589	CA	GLU	73	39.616				AAAA
ATOM	590	СВ	JLU	73	40.046				AAAA
ATOM	591	CG	GLU	73	40.430				AAAA
ATOM	592	CD	GLU	73	40.961				AAAA
ATOM	593		LGLU	73	40.147	33.696		1.00 18.51	AAAA AAAA
ATOM	594		2 GLU	73	42.201	33.753	39.793	1.00 20.88	AAAA
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	- 0 -	_	CT 11	73	40.706	32.709	35.495	1.00 20.36	AAAA
ATOM	595		GLU GLU	73 73	40.527	33.806	34.948	1.00 17.74	AAAA
MOTA	596	0	ARG	74	41.832	32.020	35.344	1.00 21.57	KAAK
ATOM	597	N CA	ARG	74	42.911	32.623	34.574	1.00 19.48	AAAA.
MOTA	598	CB	ARG	74	44.256	31.912	34.834	1.00 18.48	AAAA
MOTA	599	CG	ARG	74	44.365	30.489	34.351	1.00 14.96	AAAA
MOTA	600 601	CD	ARG	74	45.723	29.892	34.745	1.00 15.05	AAAA
MOTA MOTA	602	NE	ARG	74	45.918	28.696	33.950	1.00 18.16	AAAA
ATOM	603	CZ	ARG	. 74	46.439	28.682	32.727	1.00 16.31	AAAA
ATOM	604	NH1		74	46.843	29.811	32.145	1.00 19.74	AAAA
ATOM	605	NH2		74	46.466	27.536	32.047	1.00 14.73	AAAA
MOTA	606	С	ARG	74	42.643	32.718	33.084	1.00 16.86	AAAA AAAA
ATOM	607	0	ARG	74 .	43.148	33.621	32.426	1.00 15.41 1.00 17.56	AAAA
ATOM	608	N	CYS	75	41.859	31.794	32.547	1.00 17.36	AAAA
ATOM	609	CA	CYS	75	41.544	31.833	31.115 30.545	1.00 18.24	AAAA
MOTA	610	CB	CYS	75	41.474	30.414	30.572	1.00 19.30	AAAA
MOTA	611	SG	CYS	75 	43.047	29.514 32.561	30.898	1.00 15.81	AAAA
MOTA	612	С	CYS	75	40.216 39.762	32.748	29.762	1.00 17.79	AAAA
MOTA	613	0	CYS	75 76	39.762	32.748	32.007	1.00 15.63	AAAA -
MOTA	614	N	GLN	76 76	38.339	33.686	32.010	1.00 23.22	AAAA
ATOM	615	CA	GLN	76 76	38.595	35.122	31.530	1.00 22.99	AAAA
MOTA	616	CB	GLN GLN	76 76	37.564	36.107	32.027	1.00 44.69	AAAA
MOTA	617	CG	GLN	76	37.588	36.229	33.535	1.00 47.78	AAAA
MOTA	618	CD	GLN	76	37.563	35.228	34.243	1.00 62.95	AAAA
ATOM	619 620	NE2	GLN	76	37.619	37.452	34.033	1.00 45.96	AAAA
MOTA	621	C	GLN	76	37.304	32.975	31.135	1.00 23.43	AAAA
MOTA MOTA	622	ō	GLN	76	36.826	33.512	30.135	1.00 19.93	AAAA
ATOM	623	N	CYS	77	36.951	31.754	31.521	1.00 15.97	AAAA AAAA
MOTA	624	CA	CYS	77	36.004	30.979	30.741	1.00 18.91 1.00 24.64	AAAA
ATOM	625	CB	CYS	77 (36.738	30.225	29.623	1.00 24.04	AAAA
ATOM	626	SG	CYS	77	37.848	28.887	30.269 31.594	1.00 19.68	AAAA
ATOM	627	C	CYS	77 77	35.302	29.951 29.702	32.732	1.00 20.02	AAAA
ATOM	628	0	CYS	77	35.685 34.254	29.762	31.022	1.00 16.00	AAAA
MOTA	629	N	VAL	78 78	33.531	28.288	31.671	1.00 18.73	AAAA
ATOM	630		VAL VAL	78 78	32.016	28.455	31.557	1.00 15.57	AAAA
ATOM	631 632	CB	VAL	78	31.312	27.304	32.262	1.00 21.27	AAAA
ATOM	633		VAL	78	31.603	29.792	32.151	1.00 19.47	AAAA
ATOM ATOM	634	C	VAL	78	33.950	27.077	30.859	1.00 24.02	AAAA
ATOM	635	ō	VAL	78	33.499	26.894	29.718	1.00 24.08	AAAA AAAA
ATOM	636	N	PRO	79	34.848	26.249	31.420	1.00 18.91 1.00 17.70	AAAA
MOTA	637	CD	PRO	79	35.470	26.341	32.756	1.00 17.70 1.00 23.37	AAAA
MOTA	638	CA	PRO	79	35.320	25.056	30.720	1.00 23.37	AAAA
ATOM	639	CB	PRO	79	36.295	24.432	31.732 32.498	1.00 20.90	AAA "
ATOM	640	CG	PRO	79 7 0	36.802	25.677 24.144	30.376	1.00 27.44	AAA
MOTA	641	С	PRO	79	34.152 33.177	24.064	31.119		AAA
MOTA	642	0	PRO	79 80	34.245	23.488		1.00 23.35	AAAA
MOTA	643	N	LYS LYS	80	33.212	22.570		1.00 26.78	AAAA
MOTA	644	CA CB	LYS	80	33.708	21.853	27.518	1.00 32.33	AAAA
MOTA	645 646	CG	LYS	80	35.098	21.256	27.680	1.00 51.34	AAAA
ATOM	647	CD	LYS	80	35.669	20.817			AAAA
MOTA MOTA	648	CE	LYS	80	37.131	20.401			AAAA AAAA
MOTA	649	NZ	LYS	80	37.688	19.949		1.00 73.72	AAAA
ATOM	650	C	LYS	80	32.875	21.571			AAAA
ATOM	651	Э	LYS	80	33.770				AAAA
ATCM	652	N	GLY	81	31.582	21.431			AAAA
ATOM	653	CA	GLY	81	31.126				AAAA
ATOM	654	Ç	GLY	91	31.151				AAAA
ATOM	655		GLY		30.604 31.754				AAAA
MOTA	656		ALA	32 92	31.754				AAAA
MOTA	657				33.065			1.00 20.41	AAAA
ATCM	658		ala Ala		30.610			1.00 21.81	AAAA
ATCM	659 660		ALA		30.425				AAAA
ATCM	900	J	, and		*		-		•

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ATCM	661	N	ARG	83	29.758	23.926	33.897	1.00 17.68	AAAA
ATCM	662	CA	AEG	83	28.549	24.596	34.360	1.00 15.04	AAAA
ATCM	663	CB	ARG	83	27.777	25.188	33.176	1.00 21.02	AAAA
	664	CG	ARG	83	26.938	26.395	33.528	1.00 36.77	AAAA
ATCM					26.061	26.167	34.729	1.00 41.28	AAAA
ATCM	665	CD	ARG	83			35.105	1.00 40.05	AAAA
ATCM	666	NE	ARG	83	25.366	27.393		1.00 40.03	AAAA
ATCM	667		ARG	83	24.530	27.492	36.134		
ATOM	668		ARG	83	24.286	26.432	36.893	1.00 55.10	AAAA
ATCM	669	NH2	ARG	83	23.931	28.646	36.399	1.00 54.26	AAAA
ATCM	670	C	ARG	83	27.701	23.530	35.030	1.00 21.33	AAAA
ATCM	671	0	ARG	83 -		23.708	36.130	1.00 24.88	AAAA
ATOM	672	N	GLU	84	27.565	22.406	34.352	1.00 18.76	AAAA
MOTA	673	CA	GLU	84	26.768	21.299	34.859	1.00 24.12	AAAA
ATOM	674	CB	GLU	84	26.527	20.290	33.744	1.00 32.64	AAAA
MOTA	675	CG	GLU	84	27.769	19.994	32.925	1.00 37.91	AAAA
ATOM	676	CD	GLU.	84	27.832	20.784	31.612	1.00 51.24	AAAA
ATOM	677		GLU	84	27.585	20.152	30.545	1.00 24.82	AAAA
	678		GLU	84	28.114	22.018	31.650	1.00 22.57	AAAA
ATCM	679	C	GLU	84	27.394	20.570	36.043	1.00 25.36	AAAA
MOTA				84	26.739	20.321	37.057	1.00 26.17	AAAA
MOTA	680	0	GLU		28.665	20.232	35.897	1.00 18.78	AAAA
ATCM	681	N	LYS	85 25		19.497	36.915	1.00 20.03	AAAA
MOTA	682	CA	LYS	85			36.280	1.00 18.59	AAAA
ATCM	683	CB	LYS	85	30.658	18.900		1.00 18.39	AAAA
ATOM	684	CG	LYS	85	31.603		37.268		
MOTA	685	CD	LYS	85	31.151	16.832	37.644	1.00 51.51	AAAA
ATOM	686	CE	LYS	85	31.451	15.864	36.520	1.00 59.18	AAAA
ATCM	687	NZ	LYS	85	32.914	15.858	36.240	1.00 56.63	AAAA
ATOM	688	С	LYS	85	29.811	20.263	38.181	1.00 18.31	AAAA
MOTA	689	0	LYS	85	29.696	19.738	39.290	1.00 21.65	AAAA ,
ATCM	690	N	TYR	86	30.274	21.495	38.012	1.00 19.45	AAAA
ATOM	691	CA	TYR	. 86	30.776	22.272	39.145	1.00 14.26	AAAA
ATOM	692	CB	TYR	86	32.207	22.692	38.840	1.00 14.95	AAAA
ATCM	693	CG	TYR	86	33.107	21.508	38.585	1.00 19.76	AAAA
MOTA	694	CD1	TYR	86 -	33.384	20.591	39.601	1.00 18.93	AAAA
ATOM	695		TYR	86	34.247	19.519	39.388	1.00 20.29	AAAA
ATCM	696		TYR	86	33.711	21.322	37.337	1.00 18.14	AAAA
MOTA	697	CE2	TYR	86	34.567	20.261	37.112	1.00 22.66	AAAA
MOTA	698	CZ	TYR	86	34.832	19.364	38.145	1.00 22.51	AAAA
ATOM	699	ОН	TYR	86	35.680	18.317	37.921	1.00 23.68	AAAA
ATOM	700	C	TYR	86	29.967	23.493	39.526	1.00 19.03	AAAA
ATOM	701	Ö	TYR	86	30.353	24.226	40.450	1.00 19.18	AAAA
	702	N	ASN	87	28.87.3	23.721	38.803	1.00 17.59	AAAA
ATOM	703	CA	ASN	87	27.953	24.843	39.071	1.00 18.07	AAAA
ATOM			ASN	87	27.413	24.730	40.514	1.00 23.87	AAAA
ATCM	704	CB		87	26.020	25.349	40.688	1.00 30.67	AAAA
ATOM	705	CG	ASN	87		25.520		1.00 31.55	AAAA
ATOM	706		ASN		25.370	25.661	39.580	1.00 20.18	AAAA
ATOM	707		ASN	87	28.641	26.197	38.875	1.00 24.24	AAAA
ATCM	708	C	ASN	87	28.283	27.190	39.519	1.00 18.57	AAAA
ATOM	709	0	ASN	87			37.970	1.00 18.80	AAAA
ATCM	710	N	ILE	88	29.617	26.237			AAAA
ATCM	711	CA	ILE	88	30.353	27.471	37.680	1.00 26.44	AAAA
atom	712	CB	ILE	88	31.865	27.166	37.508		AAAA
ATCM	713		ILE	88	32.613	28.406	37.044	1.00 43.71	
ATCM	714	CG1	ILE	88	32.439		38.835	1.00 36.30	AAAA
ATOM	715	CD1	ILE	88	32.295	27.735	39.888	1.00 24.08	AAAA
ATOM	716	С	ILE	88	29.887	28.142	36.392	1.00 14.36	
ATOM	717	0	ILE	38	29.584	27.459	35.426	1.00 21.93	AAAA
ATCM	718	N	GLY	89	29.843	29.473	36.380	1.00 18.71	AAAA
MOTA	719	CA	GLY	89	29.479	30.162	35.154	1.00 20.23	AAAA
ATOM	720	C.	GLY	89	28.147	30.873	35.106	1.00 20.85	AAAA
ATOM	721	0	GLY	89	28.006	31.817	34.330	1.00 25.47	aaaa
	722	N	GLY	90	27,172	30.414	35.889	1.00 21.17	AAAA
ATOM	723	CA	GLY	90	25.863	31.060	35.898	1.00 24.44	AAAA
ATOM			GLY	90	25.862	32.371	36.668	1.00 30.60	AAAA
ATOM	724	C		90	26.900	32.788	37.168	1.00 28.13	AAAA
ATOM	725	0	GLY		24.708	33.036	36.755	1.00 23.38	AAAA
ATCM	726	23	TYR	91	24.708	33.030	20.733	1.00 23.30	

			Liguic	, 10-12				
) mov	727 CA 3	TYR :	91	24.598	34.299	37.490	1.00 28.48	AAAA
MOTA MOTA			91	23.144	34.753	37.545	1.00 29.88	· AAAA
MOTA			91	22.923	35.899	38.518	1.00 33.88	AAAA
MOTA			91	23.329	37.197	38.207	1.00 39.69	AAAA
MOTA			91	23.130	38.250	39.104	1.00 31.76	AAAA
ATOM-			91	22.317	35.678	39.759	1.00 40.63	AAAA
ATOM			91	22.115	36.720	40.664	1.00 37.07	AAAA
ATOM			91	22.521	38.002	40.327	1.00 36.22	AAAA
			91	22.306	39.035	41.210	1.00 44.71	AAAA
MOTA MOTA			91	25.075	34.157	38.937	1.00 23.59	AAAA
MOTA			91	25.713	35.041	39.502	1.00 22.64	AAAA
			92	24.724	33.032	39.531	1.00 23.09	AAAA
ATOM ATOM			92 .	25.048	32.747	40.917	1.00 26.61	AAAA
ATOM			92	24.289	31.476	41.306	1.00 32.57	AAAA
ATOM			92	24.595	30.892	42.657	1.00 41.38	AAAA
ATOM			92	23.604	29.800	43.023	1.00 49.02	- AAAA
ATOM	743 OE1		92	24.008	28.829	43.715	1.00 45.51	AAAA
ATOM			92	22.418	29.931	42.628	1.00 38.16	AAAA
ATOM		GLU	92	26.541	32.636	41.251	1.00 25.78	AAAA
ATOM	,		92	27.045	33.358	42.125	1.00 24.95	AAAA
ATOM		ASN	93	27.243	31.742	40.556	1.00 21.41	AAAA
ATOM		ASN	93	28.674	31.519	40.777	1.00 21.14	AAAA
ATOM		ASN	93	28.876	30.075	41.226	1.00 17.27	AAAA
ATOM		ASN	93	27.905	29.682	42.320	1.00 15.34	AAAA
ATOM	751 OD1		93	27.882	30.290	43.399	1.00 20.33	AAAA
ATOM	752 ND2		93	27.078	28.674	42.047	1.00 20.49	AAAA .
ATOM		ASN	93	29.378	31.778	39.445	1.00 22.25	AAAA
ATOM		ASN	93	29.901	30.865	38.806	1.00 20.29	AAAA AAAA
ATOM		PRO	94	29.451	33.057	39.045	1.00 25.45	AAAA
ATOM		PRO	94	29.027	34.221	39.839	1.00 23.03	AAAA
ATOM	757 CA	PRO	94	30.055	33.523	37.794	1.00 23.05	AAAA
ATOM	758 CB	PRO	94	29.669	35.004	37.759	1.00 28.71	AAAA
MOTA	759 CG	PRO	94	28.528	35.112	. 38.755	1.00 40.02	AAAA
ATOM	760 C	PRO	94	31.554	33.384	37.697	1.00 26.51	AAAA
MOTA	761 0	PRO	94	32.232	33.185	38.688	1.00 17.36	AAAA
MOTA	762 N	VAL	95	32.068	33.498	36.478	1.00 21.12	AAAA
ATOM	763 CA	VAL	95	33.506	33.493	36.281	1.00 17.00	AAAA
ATOM	764 CB	VAL	95	33.851	33.242	34.796	1.00 25.15 1.00 27.19	AAAA
ATOM	765 CG1	VAL	95	35.326	33.537	34.533	1.00 27.19	AAAA
ATOM	766 CG2	VAL	95	33.551	31.791	34.443	1.00 17.37	AAAA
ATOM	767 C	VAL	95	33.989	34.899	36.686	1.00 17.42	AAAA
MOTA	768 O	VAL	95	33.426	35.894	36.237	1.00 23.43	AAAA
ATOM	769 N	SER	96	34.986	34.982	37.563	1.00 18.84	AAAA
ATOM	770 CA	SER	96	35.564	36.270	37.982	1.00 23.11	AAAA
ATOM	771 CB	SER	96 .	34.608	37.070	38.867 40.223	1.00 24.43	AAAA
MOTA	772 OG	SER	96	34.723	36.679		1.00 29.09	AAAA
MOTA	773 C	SER	96	36.835	35.987	38.789 39.115	1.00 27.12	AAAA
ATCM	77 4 O	SER	96	37.117	34.828		1.00 17.51	AAAA
MOTA	775 N	TYR	97	37.610	37.020		1.00 20.69	AAAA
MOTA	776 CA	TYR	97 '	38.803	36.751 37.835			AAAA
MOTA	777 CB	TYR	97	39.865				AAAA
MOTA	778 CG	TYR	97	40.492	37.748			AAAA
MOTA		TYR	97	39.936	38.414			AAAA
ATOM		TYR	97	40.473	38.265			AAAA
ATOM	781 CD2	TYR	97	41.599	36.929			AAAA
ATOM	782 CE2		97	42.144	36.771			AAAA
MOTA	783 CZ	TYR	97	41.578	37.439			AAAA
MOTA	784 OH	TYR	97	42.122	37.273			AAAA
ATOM	785 C	TYR	97	38.510				AAAA
ATOM	786 0	TYR	97	39.413	36.285			AAAA
ATOM	787 N	ALA	98	37.243				AAAA
ATOM	788 CA	ALA	98	36.899				AAAA
MOTA	789 CB	ALA	98	35.561				AAAA
ATOM	790 C	ALA	98	36.776	34.743			AAAA
ATOM	791 0	ALA	98	36.931				AAAA
ATOM	792 N	MET	99	36.538	34.094	42.087	1.00 10.04	•
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		36.295 32	2.643 42.117	1.00 17.60	AAAA
ATOM	793 CA MET 99		2.137 40.736	1.00 17.05	AAAA
ATOM	794 CB MET 99		1.824 39.793	1.00 11.16	AAAA
MOTA	795 CG MET 99		1.698 38.113	1.00 16.54	AAAA
MOTA	796 SD MET 99		0.295 38.312	1.00 17.83	AAAA
MOTA	797 CE MET 99		1.800 42.650	1.00 18.98	AAAA
MOTA	798 C MET 99		0 753 43.251	1.00 18.21	AAAA
ATOM	799 O MET 99		2.216 42.420	1.00 12.87	AAAA
ATOM	800 N PHE 100		1.439 42.987	1.00 17.13	AAAA
MOTA	801 CA PHE 100	40.559 3	0.681 41.917	1.00 15.23	AAAA
MOTA	802 CB PHE 100		9.834 42.492	1.00 15.20	AAAA
ATOM	803 CG PHE 100		8.638 43.140	1.00 22.96	AAAA
MOTA	804 CD1 PHE 100		0.282 42.488	1.00 17.12	AAAA
MOTA	805 CD2 PHE 100		7.901 43.782	1.00 19.23	AAAA
ATOM	806 CE1 PHE 100		9.552 43.129	1.00 16.99	AAAA
ATOM	807 CE2 PHE 100	- - ·	8.360 43.779	1.00 17.78	AAAA
ATOM	808 CZ PHE 100		2.305 43.774	1.00 20.54	AAAA
ATOM	809 C PHE 100		1.990 44.912	1.00 21.45	AAAA
ATOM	810 O PHE 100		3.401 43.187	1.00 18.02	AAAA
ATOM	811 N THR 101		34.245 43.902	1.00 15.25	AAAA
MOTA	812 CA THR 101	• • • •	35.341 42.976	1.00 16.33	AAAA
MOTA	813 CB THR 101		34.720 41.870	1.00 16.01	AAAA
MOTA	814 OG1 THR 101		36.226 43.697	1.00 16.31	AAAA
ATOM	815 CG2 THR 101		34.860 45.160	1.00 14.12	AAAA
ATOM	816 C THR 101		34.707 46.244	1.00 16.86	AAAA
ATOM	817 O THR 101		35.541 45.008	1.00 13.77	AAAA
ATOM	818 N GLY 102	• • •	36.145 46.156	1.00 16.29	AAAA
ATOM	819 CA GLY 102		35.065 47.133	1.00 16.75	AAAA
MOTA	820 C GLY 102		35.202 48.338	1.00 14.48	AÁAA
ATOM	821 O GLY 102		33.986 46.615	1.00 16.24	AAAA
ATOM	822 N SER 103		32.890 47.488	1.00 16.72	AAAA
MOTA	823 CA SER 103		31.821 46.684	1.00 15.97	AAAA
ATOM	824 CB SER 103		32.349 46.197	1.00 26.86	AAAA
ATOM	825 OG SER 103		32.264 48.218	1.00 17.88	AAAA
ATOM	826 C SER 103		31.974 49.419	1.00 14.17	AAAA
MOTA	827 O SER 103		32.057 47.515	1.00 11.40	AAAA
ATOM	828 N SER 104		31.484 48.181	1.00 17.61	AAAA
ATOM	829 CA SER 104		31.206 47.160	1.00 15.89	AAAA
ATOM	830 CB SER 104		30.102 46.362	1.00 27.82	AAAA
ATOM	831 OG SER 104	42.323	32.404 49.271	1.00 17.02	AAAA
MOTA	832 C SER 104	42.867	31.958 50.286	1.00 15.37	AAAA
MOTA	833 O SER 104	42.206	33.698 49.052	1.00 17.10	AAAA
ATOM	834 N LEU 105	42.709	34.652 50.016	1.00 16.95	AAAA
MOTA	835 CA LEU 105	42.728	36.037 49.365	1.00 18.44	AAAA
ATOM	836 CB LEU 105	43.613	37.108 49.981	1.00 29.88	AAAA
MOTA	837 CG LEU 105	45.086	36 631 49.959	1.00 20.25	AAAA
ATOM	838 CD1 LEU 105	43.438	38 418 49.175	1.00 29.39	AAAA
ATOM	839 CD2 LEU 105	41.837	34 637 51.282	1.00 14.81	AAAA
ATOM	840 C LEU 105	42.334	34.703 52.404	1.00 17.74	AAAA
MOTA	841 O LEU 105	40.532	34.531 51.095	1.00 19.28	AAAA
ATOM	842 N ALA 106	39.601	34.493 52.224	1.00 12.39	AAAA
ATOM	843 CA ALA 106	38.140	34.574 51.704	1.00 11.58	AAAA
ATOM	844 CB ALA 106	39.807	33.210 53.023	1.00 14.79	AAAA
ATOM	845 C ALA 106	39.704	33.203 54.250	1.00 13.58	AAAA
MOTA	846 O ALA 106	40.114	32.128 52.318	1.00 13.67	AAAA
MOTA	847 N THR 107	40.314	30.819 52.956	1.00 13.21	AAAA
ATOM	848 CA THR 107	40.187	29.708 51.902	1.00 14.95	AAAA
MOTA	849 CB THR 107	38.868	29.792 51.334	1.00 15.72	AAAA
ATOM	850 OG1 THR 107	40.422	28.311 52.511	1.00 9.51	AAAA
ATOM		40.422	30.751 53.68	1.00 15.80	AAAA
ATCM	852 C THR 107		30.206 54.792		AAAA
ATOM	853 O THR 107		31.294 53.08		AAAA
ATOM	854 N GLY 108		31.298 53.76		AAAA
ATOM	855 CA GLY 108		32.119 55.04		AAAA
ATOM	856 C GLY 108		31.813 56.06		AAAA
ATOM	357 O GLY 108		33.158 54.98		AAAA
ATCM	858 N SER 109	42.503	55.250 52.70		•

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ATOM	859	CA	SER	109	42.727	34.020	56.153	1.00 14.54	AAAA
ATOM	860	СВ	SER	109	41.906	35.248	55.737	1.00 15.58	AAAA
ATOM	861	OG	SER	109	42.627	36.045	54.809	1.00 16.97	AAAA
	862	C	SER	109	42.037	33.264	57.297	1.00 15.56	AAAA
ATOM			SER	109	42.189	33.600	58.487	1.00 17.00	AAAA
ATOM	863	0			41.261	32.247	56.944	1.00 14.37	AAAA
MOTA	864	N	THR	110			57.957	1.00 12.89	AAAA
ATOM	865	CA	THR	110	40.608	31.435		1.00 12.89	AAAA
MOTA	866	CB	THR	110	39.452	30.628	57.360		
MOTA	867	OG1	THR	110	38.346	31.519	57.163	1.00 18.11	AAAA
MOTA	868	CG2	THR	110	39.061	29.452	58.278	1.00 12.91	AAAA
MOTA	869	С	THR	110	41.633	30.524	58.601	1.00 18.44	ÁAAA
MOTA	870	0	THR	110	41.574	30.302	59.806	1.00 16.30	AAAA
ATOM	871	N	VAL	111	42.584	30.013	57.816	1.00 15.20	AAAA
MOTA	872	CA	VAL	111	43.514	29.180	58.403	1.00 20.45	AAAA
MOTA	873	CB	VAL	111	44.517	28.514	57.323	1.00 20.02	AAAA
ATOM	874	CG1		111	45.652	27.765	58.005	1.00 21.79	AAAA
	875		VAL	111	43.697	27.537	56.482	1.00 19.07	AAAA
MOTA		_	VAL	111	44.456	30.075	59.327	1.00 18.21	AAAA
MOTA	876	C		111	44.838	29.672	60.431	1.00 18.65	AAAA
MOTA	877	0	VAL		44.731	31.302	58.890	1.00 16.82	AAAA
MOTA	878	N	GLN	112		32.232	59.719	1.00 20.13	AAAA
MOTA	879	CA	GLN	112	45.493			1.00 22.39	AAAA
ATOM	880	CB	GLN	112	45.751	33.540	58.970	1.00 22.39	
MOTA	881	CG	GLN	112	46.593	33.360	57.723		AAAA
ATOM	882	CD	GLN	112	46.797	34.651	56.982	1.00 24.82	AAAA
MOTA	883	OE1	GLN	112	47.772	35.381	57.219	1.00 25.62	AAAA
ATOM	884	NE2	GLN	112		. 34.963	56.091	1.00 13.16	AAAA
MOTA	885	С	GLN	112	44.743	32.516	61.012	1.00 23.99	AAAA
MOTA	886	0	GLN	112	45.340	32.593	62.079	1.00 17.94	AAAA
MOTA	887	N	ALA	113	43.431	32.700	60.924	1.00 15.60	AAAA
ATOM	888	CA	ALA	113	42.653	32.941	62.138	1.00 15.04	AAAA
ATOM	889	СВ	ALA	113	41.191	33.138	61.802	1.00 18.65	AAAA
ATOM	890	c	ALA	113	42.807	31.751	63.083	1.00 14.84	AAAA
ATOM	891	ō.	ALA	113	42.941	31.909	64.296	1.00 21.05	AAAA
MOTA	892	N	ILE	114	42.767	30.550	62.534	1.00 16.45	AAAA
	893	CA	ILE	114	42.919	29.383	63.389	1.00 15.38	AAAA
MOTA			ILE	114	42.600	28.100	62.637	1.00 15.22	AAAA
ATOM	894	CB	ILE	114	42.888	26.893	63.537	1.00 15.72	AAAA
MOTA	895			114	41.110	28.112	62.244	1.00 19.28	AAAA
MOTA	896		ILE		40.744	27.038	61.191	1.00 13.43	AAAA
MOTA	897	CD1	ILE	114		29.318	63.968	1.00 18.02	AAAA
MOTA	898	C	ILE	114	44.329			1.00 20.38	AAAA
MOTA	899	0	ILE	114	44.508	28.998	65.156	1.00 15.27	AAAA
MOTA	900	N	GLU	115	45.328	29.629	63.144		AAAA
MOTA	901	CA	GLU	115	46.726	29.626	63.614	1.00 21.48	AAAA
MOTA	902	CB	GLU	115	47.690		62.506	1.00 21.76	
MOTA	903	CG	GLU	115	47.884	29.080	61.386	1.00 15.78	AAAA
MO A	904	CD	GLU	115	48.670	29.648	60.211	1.00 20.04	AAAA
A COM	905	OE1	GLU	115	49.051	30.843	60.239	1.00 21.48	AAAA
A TOM	906	OE2	GLU	115	48.901	28.902	59.241	1.00 26.59	AAAA
MOTA	907	C	GLU	115	46.877	30.559	64.814	1.00 23.55	AAAA
ATOM	908	0	GLU	115	47.509	30.212	65.815	1.00 23.03	AAAA
ATOM	909	N	GLU	116	46.295	31.748	64.703	1.00 22.73	AAAA
MOTA	910	CA	GLU	116	46.367	32.735	65.774	1.00 20.54	AAAA
MOTA	911	CB	GLU	116	45.744	34.044	65.320	1.00 18.40	AAAA
	. 912	CG	GLU	116	46.562	34.765	64.279	1.00 19.76	AAAA
MOTA	913	CD	GLU	116	47.985	34.998	64.756	1.00 27.24	AAAA
MOTA				116	48.164	35.630	65.815	1.00 18.44	AAAA
MOTA	914		GLU	•			64.078	1.00 23.17	AAAA
MOTA	915		GLU	116	48.919	32.253	67.034	1.00 25.39	AAAA
ATOM	916	C	GLU	116	45.682		68.137	1.00 23.33	AAAA
MOTA	917	0	GLU	116	46.207	32.427			AAAA
MOTA	918	71	PHE	117	44.510	31.647	66.872	1.00 18.78	AAAA
MOTA	919	CA	PHE	117	43.778	31.139	68.019	1.00 22.11	
MOTA	920	CB	PHE	117	42.451	30.530	67.581	1.00 23.14	AAAA
ATOM	921	CG	PHE	117	41.603	30.054	68.728	1.00 24.06	AAAA
ATOM	922	CD1	PHE	117	40.880	30.961	69.493	1.00 19.67	AAAA
. ATOM	923		PHE	117	41.559	28.701	69.066	1.00 24.08	AAAA
ATOM	924		PHE	117	40.115	30.531	70.586	1.00 23.68	KAAA
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		40.799 28.262 70.156 1.00 24.04	AAAA
MOTA	925 CE2 PHE 117	40.793 20.202	AAAA
MOTA	926 CZ PHE 117	40.078 29.179 70.915 1.00 19.62 44.587 30.068 68.747 1.00 23.87	AAAA
MOTA	927 C PHE 117	44.517 30.031 69.979 1.00 24.40	AAAA
MOTA	928 O PHE 117	45 338 29 194 67.981 1.00 21.09	AAAA
ATOM	929 N LEU 118	45.230 23.232 20.20.20.73	AAAA
ATOM	930 CA LEU 118	46.025 28.115 62 480 1 00 17 90	AAAA
MOTA	931 CB LEU 118	46.338 27.354 66.984 1.00 26.20	AAAA
MOTA	932 CG LEU 118	45.148 25.288 65.924 1.00 34.23	AAAA
ATOM	933 CD1 LEU 118	45.591 25.200 68.139 1.00 27.16	AAAA
ATOM	934 CD2 LEU 118	47 200 29 601 69 238 1.00 26.49	AAAA
ATOM	935 C LEU 118	47.290 20.001 69.996 1.00 26.34	AAAA
ATOM	936 O LEU 118	47 672 29 848 68,975 1.00 28.92	AAAA
MOTA	937 N LYS 119	40 035 30 459 69.624 1.00 28.53	AAAA
ATOM	938 CA LYS 119	40 202 31 616 68 805 1.00 30.15	AAAA
ATOM	939 CB LYS 119	40 015 31 267 67 437 1.00 35.14	AAAA
MOTA	940 CG LYS 119	50 201 32 549 66.716 1.00 28.98	AAAA
ATOM	941 CD LYS 119	50.005 32.262 65.380 1.00 31.07	AAAA
MOTA	942 CE LYS 119	51 105 33 551 64.745 1.00 22.46	AAAA
MOTA	943 NZ LYS 119	10 335 31 053 70.932 1.00 35.74	AAAA
MOTA	944 C LYS 119	49 117 31.541 71.750 1.00 27.10	AAAA
ATOM	945 O LYS 119	47 010 31 050 71 103 1.00 25.20	AAAA
MOTA	946 N GLY 120	16 44E 31 605 72 309 1.00 30.18	AAAA
MOTA	947 CA GLY 120	45 013 33 007 72.122 1.00 31.91	AAAA
ATOM	948 C GLY 120	15 540 33 665 73 094 1.00 34.76	AAAA
MOTA	949 O GLY 120	45 990 33 495 70.887 1.00 20.56	AAAA
MOTA	950 N ASN 121	15 252 24 825 70 681 1.00 25.58	AAAA
MOTA	951 CA ASN 121	46 270 35 634 69 785 1.00 49 99	AAAA
MOTA	952 CB ASN 121	47 541 35 827 70.427 1.00 24.43	AAAA
ATOM	953 CG ASN 121	10 206 34 874 70 588 1.00 54.63	AAAA
MOTA	954 OD1 ASN 121	47 044 37 045 70.817 1.00 41.69	AAAA
MOTA	955 ND2 ASN 121	12 041 24 759 70 135 1.00 18.85	AAAA
MOTA	956 C ASN 121	43 431 33 675 69 899 1.00 24.77	AAAA
MOTA	957 O ASN 121	42 210 25 918 69 991 1.00 19.55	AAAA
ATOM	958 N. VAL 122	41 936 35 994 69.499 1.00 22.90	AAAA
MOTA	959 CA VAL 122	11 052 36 932 70 449 1.00 31.47	AAAA
MOTA	960 CB VAL 122	35 CAR 37 006 69 851 1.00 31.52	AAAA
MOTA	961 CG1 VAL 122	40 096 36 154 71 810 1.00 32.50	AAAA
ATOM	962 CG2 VAL 122	42 053 36 632 68,130 1.00 16.87	AAAA
ATOM	963 C VAL 122	42 519 37 710 67.938 1.00 24.08	AAAA
MOTA	964 O VAL 122	11 221 35 983 67 159 1.00 18.67	AAAA
MOTA	965 N ALA 123	41 360 36 532 65.821 1.00 10.18	AAAA AAAA
MOTA	966 CA ALA 123	10 245 25 743 64 990 1.00 19.04	AAAA
MOTA	967 CB ALA 123	40 000 36.551 65.131 1.00 13.72	
ATOM	968 C ALA 123	20 100 35 761 65 439 1.00 20.78	AAAA AAAA
ATCM	909 0 1221	39 871 37.457 64.18C 1.00 12.92	AAAA
ATCM	370 11 212	20 649 37 610 63 401 1.00 14.67	AAAA
MOTA	J/1 101	27 004 38 878 63 85£ 1.00 14.6/	AAAA
ATCM	J. 2 02 - 104	36 660 39.209 63.049 1.00 20.20	AAAA
MOTA	9/3 66	35 811 38.209 62.587 1.00 18.30	AAAA
MOTA	3/4 CDI	36 286 40.545 62.843 1.00 19.53	AAAA
ATOM	313 104	24 600 30 532 61 937 1.00 18 /2	AAAA
MOTA	976 CE1 PHE 124	35 072 40.875 62.193 1.00 20.18	
MOTA	977 CE2 PHE 124	34 242 39.867 61.744 1.00 21.57	AAAA
MOTA	978 CZ PHE 124	30 016 37 712 61 930 1.00 22.60	AAAA AAAA
MOTA	979 C PHE 124	30 023 38 558 61 535 1.00 19.22	
MOTA	980 O PHE 124	28 449 36 820 61.126 1.00 19.39	AAAA
MOTA	981 N ASN 125	30 651 36 858 59.691 1.00 16.80	AAAA
ATCM	982 CA ASN 125	39 122 35.507 59.150 1.00 15.71	AAAA
ATOM	983 CB ASN 125	20 063 35 469 57 649 1.00 12.84	AAAA
ATCM	984 CG ASN 125	20 216 36 508 57 006 1.00 14.91	AAAA
ATOM	985 OD1 ASN 125	39.210 30.300 57.065 1.00 16.21	AAAA
ATOM	986 ND2 ASN 125	37 315 37 310 59 038 1.00 16.22	AAAA
ATCM	987 C ASN 125	36 502 36.330 58.755 1.00 15.28	AAAA
ATOM	988 O ASN 125	37 071 38 502 58.775 1.00 14.84	AAAA
ATOM	989 N PRO 126	37.908 39.684 59.052 1.00 18.10	AAAA
ATCM		J1,000 == 100 -	•

				176		35.811	38.910	58.156	1.00 17.33	AAAA
ATOM	991		PRO	126				58.177	1.00 16.32	AAAA
MOTA	992		PRO	126		35.912	40.434	58.008	1.00 20.95	AAAA
MOTA	993	CG	PRO	126		37.416	40.655		1.00 20.33	AAAA
ATOM	994	C	PRO	126		35.549	38.359	56.752		AAAA
ATOM	995		PRO	126		34.404	38.291	56.322	1.00 17.03	
ATOM -	996		ALA	127		36.607	37.972	56.042	1.00 14.57	AAAA
	997		ALA	127	•	36.463	37.443	54.691	1.00 17.37	AAAA
MOTA	998		ALA	127		37.816	37.540	53.930	1.00 14.48	AAAA
MOTA	_	CB	ALA	127		35.982	35.998	54.702	1.00 19.77	AAAA
MOTA	999	C		127		35.490	35.500	53.688	1.00 15.62	AAAA
MOTA	1000	0	ALA			36.111	35.339	55.849	1.00 13.54	AAAA
MOTA	1001	31	GLY	128		35.725	33.939	55.971	1.00 13.53	AAAA
MOTA	1002	CA	GLY	.128				56.101		AAAA
ATOM	1003	С	GLY	128	•	34.234	33.679		1.00 15.65	AAAA
MOTA	1004	0	GLY	128		33.414	34.585	56.017	1.00 13.35	AAAA
MOTA	1005	N	GLY	129	•	33.883	32.420	56.314	1.00 16.28	AAAA
ATOM	1006	CA	GLY	129		32.487	32.058	56.446	1.00 16.26	AAAA
MOTA	1007	С	GLY	129		31.754	31.831	55.130	1.00 15.69	
· ATOM	1008	Ö	GLY	129		30.543	32.021	55.072	1.00 16.10	AAAA
	1009	N	MET	130		32.479	31.448	54.079	1.00 15.00	AAAA
MOTA	1010	CA	MET	130		31.879	31.163	52.757	1.00 13.35	AAAA
MOTA		CB	MET	130		32.969	31.215	51.689	1.00 12.20	AAAA
MOTA	1011		MET	130		33.680	32.573	51.731	1.00 17.03	AAAA
MOTA	1012	CG		130		34.863	32.877	50.425	1.00 15.41	AAAA
MOTA	1013	SD	MET			33.752	32.973	49.073	1.00 46.82	AAAA
MOTA	1014	CE	MET	130		31.296	29.756	52.885	1.00 12.49	AAAA
MOTA	1015	С	MET	130		31.785	28.789	52.297	1.00 19.54	AAAA
MOTA	1016	Э	MET	130				53.617	1.00 16.24	AAAA
MOTA	1017	24	HIS	131		30.188	29.695		1.00 13.80	AAAA
MOTA	1018	CA	HIS	131		29.556	28.448	54.014	1.00 15.91	AAAA
ATOM	1019	CB	HIS	131		28.772	28.694	55.316	1.00 13.08	AAAA
MOTA	1020	CG	HIS	131		27.606	29.625	55.175		AAAA
ATOM	1021	CD2	HIS	131		26.712	30.063	56.096	1.00 12.46	AAAA
ATOM	1022		HIS	131		27.225	30.190	53.976	1.00 22.48	
MOTA	1023		HIS	131		26.148	30.936	54.166	1.00 16.56	AAAA
	1024		HIS			25.817	30.875	55.442	1.00 23.56	AAAA
ATOM	1025	C	HIS	131		28.673	27.663	53.066	1.00 13.69	AAAA
MOTA			HIS	131		28.125	26.658	53.470	1.00 17.21	AAAA
MOTA	1026	0	HIS	132		28.523	28.115	51.830	1.00 14.51	AAAA
MOTA	1027	N	HIS	132		27.669	27.400	50.887	1.00 20.19	AAAA
MOTA	1028	CA		132		26.863	28.416	50.054	1.00 17.26	AAAA
ATOM	1029	CB	HIS			25.748	29.070	50.810	1.00 16.85	AAAA
MOTA	1030	CG	HIS	132		24.787	28.542	51.604	1.00 13.74	AAAA
MOTA	1031		HIS	132		25.497	30.424	50.756	1.00 24.80	AAAA
MOTA	1032		HIS	132			30.700		1.00 12.68	AAAA
ATOM	1033		HIS	132		24.429	29.576		1.00 28.65	AAAA
MOTA	1034		HIS	132		23.980				AAAA
ATOM	1035	C	HIS	132		28.372	26.412			AAAA
MOTA	1036)	HIS	132		27.731	25.487		1.00 16.79	AAAA
MOTA	1037	:1	ALA	133		29.669	26.580			AAAA
ATCM	1038	JA	ALA	133		30.338	25.680			AAAA
ATOM	1039	CB	ALA	133		31.738	26.194			
MOTA	1040	ē.	ALA	133		30.418	24.219	49.179		AAAA
	1041	Ö	ALA	133		30.557	23.939	50.355		AAAA
MOTA		:1	PHE	134		30.306	23.306	48.209	1.00 13.76	AAAA
MOTA	1042	CA	PHE	134		30.378	21.868		1.00 19.77	AAAA
MOTA	1043			134		29.311	21.132		1.00 15.59	AAAA
MOTA	1044	CB	PHE			27.917	21.525			AAAA
MOTA	1045	CG	PHE	134		27.135	22.259			AAAA
MOTA	1046		PHE	134			21.187			AAAA
MOTA	1047		PHE	134		27.392				AAAA
ATOM	1048		PHE	134		25.836	22.653			AAAA
MOTA	1049		PHE	134		26.099	21.578			AAAA
ATOM	1050		PHE	134		25.323	22.308			AAAA
ATOM	1051		PHE	134		31.763	21.354			AAAA
	1052		PHE	134		32.547	22.049		1.00 18.05	
MOTA	1052		LYS	135		32.060	20.124			AAAA
MOTA			LYS	135		33.369	19.551	48.269	1.00 16.24	AAAA
ATOM	1054		LYS			33.360			1.00 21.29	AAAA
MOTA	1055	_				34.640				AAAA
ATOM	1056	CG	LYS	133		J4.040		•		•
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			125	34.597 15.867	48.977 1.	.00 30.26	AAAA
MOTA	1057 C		135	34.862 15.805	50.486 1.	.00 35.01	AAAA '
MOTA		E LYS	135 135	36.304 16.023	50.895 1.	.00 20.61	AAAA
ATOM		Z LYS	135	33.854 19.687	46.836 1	.00 16.60	AAAA
MOTA	1060 C		135	35.020 20.020	46.584 1	.00 17.24	AAAA
MOTA	1061 0		136	32.944 19.483		.00 18.01	AAAA
MOTA	1062 N		136	33.301 19.528	44.490 1	.00 15.26	AAAA
MOTA		A SER	136	33.339 18.094		.00 18.07	AAAA
MOTA		B SER	136	34.135 17.261		.00 22.22	AAAA
MOTA		G SER	136	32.345 20.355	43.658 1	.00 15.40	AAAA
MOTA		SER	136	32.162 20.071		.00 18.77	AAAA
MOTA) SER	137	31.754 21.401	44.237 1	.00 19.71	AAAA
MOTA		I ARG	137	30.805 22.216		.00 17.29	AAAA
MOTA		CA ARG	137	29.481 21.448		.00 24.19	AAAA AAAA
MOTA		CB ARG	137	28.290 22.273		.00 32.56	AAAA
MOTA		CG ARG	137	27.026 21.424		00 47.98	AAAA
MOTA			137	26.951 20.493		.00 50.95	AAAA
ATOM		NE ARG CZ ARG	137	26.392 20.781	• • • • •	L.00 50.38 L.00 45.26	AAAA
MOTA		NH1 ARG	137	25.854 21.976		1.00 45.26	AAAA
MOTA		NH1 ARG	137	26.375 19.876		1.00 16.14	AAAA
MOTA		C ARG	137	30.537 23.595		1.00 16.14	AAAA
ATOM		O ARG	137	30.439 23.711		1.00 18.07	AAAA
MOTA		N ALA	138	30.395 24.621		1.00 21.48	AAAA
MOTA		CA ALA	138	30.117 25.976		1.00 16.55	AAAA
MOTA		CB ALA	138	30.460 27.024		1.00 21.04	AAAA
MOTA		C ALA	138	28.642 26.090		1.00 18.97	AAAA
MOTA MOTA	1083	O ALA	138	27.798 25.33		1.00 13.83	AAAA
MOTA	1084	N ASN	139	28.321 27.01		1.00 12.92	AAAA
MOTA	1085	CA ASN	139	26.952 27.15		1.00 13.14	AAAA
ATOM	1086	CB ASN	139	26.566 25.89		1.00 20.34	AAAA
MOTA	1087	CG ASN	139	25.162 25.96		1.00 19.76	AAAA
ATOM	1088	OD1 ASN	139	24.186 26.06 25.048 25.88		1.00 16.36	AAAA
ATOM	1089	ND2 ASN	139			1.00 20.92	AAAA
ATOM	1090	C ASN	139		•	1.00 16.81	AAAA
ATOM	1091	O ASN				1.00 19.30	AAAA
ATOM	1092	N GLY		25.644 29.10 25.330 30.29		1.00 21.34	AAAA
ATOM	1093	CA GLY		26.393 31.37		1.00 20.19	AAAA
MOTA	1094	C GLY		26.653 31.96		1.00 18.77	AAAA
ATOM	1095	O GLY		26.996 31.64		1.00 15.52	AAAA
ATOM	1096	N PHE		28.034 32.67		1.00 20.71	AAAA AAAA
MOTA	1097	CA PHE		27.711 33.95	2 46.388	1.00 20.03	
MOTA	1098	CB PHE		26.355 34.54	46.127	1.00 28.32	AAAA AAAA
MOTA	1099	CG PHE	•	25.855 35.52	6 46.997	1.00 24.25	AAAA
MOTA	1100		-	25.589 34.1	70 45.029	1.00 30.11	AAAA
MOTA	1101	CD2 PHE		24.628 36.13		1.00 25.94	AAAA
ATOM		CE2 PHI		24.346 34.7	56 44.801	1.00 21.6 1.00 24.4	AAAA
MOTA		CZ PHI		23.870 35.7	41 45.677	1.00 24.4	AAAA
MOTA		C PHI		29.357 32.1		1.00 16.39	AAAA
MOTA		O PHI		30.336 32.9		77	AAAA
ATOM		N CY		29.389 30.9	82 46.716	1.00 17.71	AAAA
ATOM		CA CY	<u>-</u>	30.629 30.4		1.00 17.71	AAAA
MOTA		· CB CY		30.347 29.8		1.00 16.63	AAAA
ATOM		SG CY		29.606 30.9		1.00 18.09	AAAA
MOTA MOTA		C CY		31.313 29.4		1.00 16.60	AAAA
-		O CY		30.647 28.5		1.00 12.50	AAAA
ATOM		N TY		32.639 29.5		1.00 15.32	AAAA
MOTA MOTA		CA TY	R 143	33.429 28.6		1.00 13.07	AAAA
		CB TY		34.333 29.3		1.00 15.80	AAAA
MOTA MOTA		CG TY	R 143	33.614 30.3			AAAA
ATO		CD1 TY	R 143	33.396 31.6			AAAA
ATO		CE1 TY	R 143	32.740 32.			AAAA
ATO		CD2 TY	R 143	33.157 29.5 32.501 30.5		1.00 10.74	AAAA
ATO		CE2 TY	R 143			1.00 20.89	AAAA
ATO		CZ TY		32.301 32.3 31.698 33.		0 07	AAAA
ATO			ZR 143	21.030 22.			•
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					24 21/		. 723	46.358	1 00	17.35	AAAA
ATOM	1123	-	TYR	143	34.31			46.013	1 00	16.67	AAAA
MOTA	1124	0	TYR	143	34.583		.574	47.489		14.93	AAAA
MOTA	1125	N	ILE	144	34.76		. 262	48.408		14.17	AAAA
MOTA	1126	CA	ILE	144	35.599		.500	48.440		14.87	AAAA
MOTA	1127	CB	ILE	144	37.01		.069	49.474	1 00	13.55	AAAA
ATOM	1128	CG2	ILE	144	37.86		.332	47.021		16.98	AAAA
ATOM	1129	CG1	ILE	144	37.61		.027			17.42	AAAA
MOTA	1130	CD1	ILE	144	39.05	_	. 537	46.901		17.22	AAAA
ATOM	1131	С	ILE	144	34.95		.615	49.788	1.00	14.72	AAAA
ATOM	1132	Ο.	ILE	144	34.60		.716	50.220		13.46	AAAA
ATOM	1133	N	ASN	145	34.79		.486	50.474 51.797	1.00	16.09	AAAA
ATOM	1134	CA	ASN	145	34.17	-	.493	51.797		14.50	AAAA
MOTA	1135	CB	ASN	145	33.40		.178	53.148	1 00	15.64	AAAA
ATOM	1136	CG	ASN	145	32.42		.239	54.263		14.97	AAAA
MOTA	1137	OD1		145	32.80		.587 .916	52.882	1 00	16.74	AAAA
MOTA	1138	ND2		145	31.17		.639	52.873		15.04	AAAA
MOTA	1139	C	ASN	145	35.26		.637	53.338	1.00	15.72	AAAA
MOTA	1140	0	ASN	145	35.81		.865	53.330	1 00	12.34	AAAA
MOTA	1141	N	ASN	146	35.59		.006	54.262	1 00	15.31	AAAA
MOTA	1142	CA	ASN	146	36.68		.464	54.354	1.00	15.81	AAAA
ATOM	1143	CB	ASN	146	37.16		.396	54.865	1.00	15.25	AAAA
MOTA	1144	CG	ASN	146	36.10		1.757	56.034		13.57	AAAA
ATOM	1145		ASN	146	36.11 35.15		1.775	53.996		10.85	AAAA
MOTA	1146		ASN	146	36.30		.400	55.613	1.00	13.04	AAAA
MOTA	1147	С	ASN	146	37.16		.865	56.314	1.00	14.76	AAAA
ATOM	1148	0	ASN	146	35.02		.489	56.016	1.00	14.28	AAAA
ATOM	1149	N	PRO	147 147	33.81		3.175	55.515	1.00		AAAA
ATOM	1150	CD	PRO	147	34.75		.843	57.307	1.00	13.51	AAAA
MOTA	1151	CA	PRO	147	33.25		7.058	57.482		14.44	AAAA
MOTA	1152	CB	PRO	147	33.05		3.436	56.827	1.00	12.32	AAAA
MOTA	1153	CG	PRO	147	35.13		5.330	57.278	1.00	18.86	AAAA
MOTA	1154	C	PRO PRO	147	35.6		1.796	58.251		16.24	AAAA
MOTA	1155	И О	ALA	148	34.83		1.642	56.171	1.00	15.01	AAAA
ATOM	1156 1157	CA	ALA	148	35.12		3.200	56.080	1.00	15.58	AAAA
MOTA	1158	CB	ALA	148	34.40		2.561	54.882	1.00	12.93	AAAA
ATOM	1159	C	ALA	148	36.62		2.956	55.984	1.00	14.94	AAAA
MOTA	1160	ō	ALA	148	37.13		1.999	56.560	1.00	14.69	AAAA
ATOM	1161	N	VAL	149	37.3	28 23	3.817	55.263	1.00	12.49	AAAA
MOTA MOTA	1162	CA	VAL	149	38.7		3.708	55.163	1.00	15.31	AAAA AAAA
ATOM	1163	CB	VAL	149	39.3		4.797	54.243		14.77	AAAA
ATOM	1164	CG1		149	40.8		4.870	54.369		14.68	AAAA
ATOM	1165		VAL	149	38.9		4.501	52.808	1.00	12.50	AAAA
ATOM	1166	C	VAL	149	39.3		3.887	56.572		0 20.14	AAAA
ATOM	1167	Ō	VAL	149	40.1		3.109	57.028	1.00	0 15.45	AAAA
ATOM	1168	И	GLY	150	38.8		4.899	57.271	1.00	0 20.96	AAAA
ATOM	1169	CA	GLY	_50	39.2		5.168		3.00	0 24.16	AAAA
ATOM	1170	С	GLY	_30	39.0		4.053			0 19.50	AAAA
ATOM	1171	0	GLY	150	39.8		3.738			0 16.67	AAAA
ATOM	1172	И	ILE	151	37.8		3.465		1.0	0 19.56	AAAA
ATOM	1173	CA	ILE	151	37.4		2.375			0 16.46	AAAA
ATOM	1174	CB	ILE	151	35.9		2.052			0 17.93	AAAA
ATOM	1175	CG2		151	35.6		0.709		1.0	0 12.31	
ATOM	1176	CG:	LILE	151	35.1		3.209 3.123			0 18.71	AAAA
ATOM	1177	CD:		151	33.6		1.148		1 0	0 22.66	AAAA
MOTA	1178	C	ILE	151	38.3		0.472		1.0	0 20.08	AAAA
ATOM	1179		ILE	151	38.7		0.4/2			0 19.71	АААА
ATCM	1180		GLU	152	38.5		9.718			0 13.85	АААА
ATOM	1181		GLU	152	39.4		9.710			0 20.21	AAAA
ATOM	1182		GLU	152	39.3 38.0		18.833			0 22.16	AAAA
ATOM	1183		GLU	152	38.0 37.8				1.0	0 26.94	AAAA
ATCM	1184			152	37.8 36.7		16.906			0 25.03	aaaa
ATOM	1185		1 GLU	152	38.8		16.846			0 24.95	AAAA
ATOM	1186		2 GLU	152	40.8		20.010			0 16.85	AAAA
ATOM	1187		GLU	152	40.6		19.110			0 19.25	AAAA
: TOM	1188	. 0	GLU	152	47.		\				

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				1 5 3	41.228			1.00 14.74	AAAA
ATOM				153	42.574	21.672		1.00 17.71	AAAA AAAA
MOTA				153	42.757			1.00 13.26	AAAA
MOTA				153	44.059	23.727		1.00 16.36	AAAA
MOTA				153	45.234			1.00 18.41	AAAA
MOTA	1193	CE1		153	46.438	24.219		1.00 21.03	AAAA
MOTA	1194 1195	CD2		153	44.115	24.220		1.00 21.16 1.00 19.76	AAAA
ATOM	1196	CE2		153	45.288	24.705	61.570	1.00 19.70	AAAA
ATOM	1197			153	46.440	24.711	60.824	1.00 23.15	AAAA
ATOM ATOM	1198		TYR	153	47.571	25.235	61.410 60.828	1.00 20.00	AAAA
MOTA	1199		TYR	153 -	42.712	21.274	61.247	1.00 19.61	AAAA
ATOM	1200		TYR	153	43.722	20.698 21.569	61.616	1.00 17.78	AAAA
MOTA	1201		LEU	154	41.683 41.698	21.239	63.042	1.00 17.26	AAAA
MOTA	1202		LEU	154	40.511	21.913	63.744	1.00 20.44	AAAA
MOTA	1203		LEU	154 154	40.636	23.434	63.942	1.00 19.57	AAAA
MOTA	1204	CG CD1	LEU	154	39.277	24.046	64.309	1.00 22.48	AAAA AAAA
MOTA	1205	CD1		154	41.692	23.709	65.044	1.00 20.84	AAAA
MOTA	1206	CD2	LEU	154	41.669	19.715	63.262	1.00 19.69	AAAA
MOTA	1207 1208	0	LEU	154	42.357	19.191	64.149	1.00 22.91 1.00 20.88	AAAA
MOTA MOTA	1200	N	ARG	155	40.878	18.996	62.469 62.622	1.00 22.64	AAAA
MOTA	1210	CA	ARG	155	40.840	17.539	61.652	1.00 25.69	AAAA
MOTA	1211	CB	ARG	155	39.829	16.905 17.394	61.893	1.00 27.64	AAAA
ATOM	1212	CG	ARG	155	38.384 37.382	16.834	60.892	1.00 25.67	AAAA
MOTA	1213	CD	ARG	155	36.931	15.497	61.246	1.00 30.88	AAAA
MOTA	1214	NE	ARG	155	36.135	14.753	60.488	1.00 36.28	AAAA
MOTA	1215	CZ	ARG	155 155	35.705	15.218	59.318	1.00 26.96	AAAA
MOTA	1216	NHI	ARG ARG	155	35.737	13.562	60.923	1.00 27.33	AAAA AAAA
MOTA	1217 1218	C	ARG	155	42.235	16.966	62.390	1.00 28.00	AAAA
MOTA	1210	0	ARG	155	42.674	16.070	63.119	1.00 28.05 1.00 23.53	AAAA
MOTA MOTA	1220	N	LYS	156	42.949		61.395 61.128	1.00 26.79	AAAA
ATOM	1221	CA	LYS	156	44.290		59.824	1.00 26.01	AAAA
ATOM	1222	CB	LYS	156	44.854 46.213		59.444	1.00 29.70	AAAA
ATOM	1223	CG	LYS	156	46.632			1.00 28.77	AAAA
MOTA	1224	CD	LYS	156 156	45.685		57.005	1.00 39.79	AAAA AAAA
ATOM	1225		LYS LYS	156	45.671	15.192			AAAA
MOTA	1226 1227	NZ C	LYS	156	45.233	17.260			AAAA
MOTA MOTA	1227		LYS	156	46.188				AAAA
ATOM	1229		LYS	157	44.960	18.337			AAAA
MOTA	1230		LYS	157	45.757				AAAA
MOTA	1231		LYS	157	45.535				AAAA
ATCM	1232		LYS	157	46.160 47.669			1.00 35.16	AAAA
ATOM	1233		LYS	157	48.28	,::.		1.00 39.24	AAAA
ATOM	1234		LYS	157	49.74			1.00 40.01	4AAA AAAA
ATCM			LYS	157 157	45.42		5 65.411		AAAA
MOTA			LYS LYS	157	46.08	5 17.90			AAAA
ATCM			GLY	158	44.39	2 16.99			AAAA
ATCM				158	44.02				AAAA
ATOM ATOM			GLY	158	42.77				AAAA
ATOM			GLY	158	42.42				AAAA
ATCM			PHE	159	42.08				AAAA
ATOM				159	40.86 40.41			6 1.00 27.53	AAAA
ATOM				159	41.26			7 1.00 27.26	AAAA
ATOM	124			159	42.43			0 1.00 28.12	AAAA
ATOM			1 PHE	159 159	40.92	6 20.84	2 69.07	6 1.00 21.10	AAAA AAAA
ATOM			2 PHE	159	43.26	4 21.71	.4 67.86		AAAA
ATC			1 PHE 2 PHE	159	41.73	8 21.76	8 69.73		AAAA
ATC				159	42.90	7 22.20			AAAA
ATC			PHE	159	39.79				AAAA
ATO: ATC:		_	PHE	159	39.63				AAAA
ATC			LYS	160	39.05				AAAA
ATO:			LYS	160	38.0	11 15.36			•
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ATOM	1255	СВ	LYS	160		38.360	14.098	68.668	1.00 22.86	Ann
ATOM	1256	CG	LYS	160		39.625	13.424	68.157	1.00 43.16	AAAA
MOTA	1257	CD	LYS	160		40.222	12.417	69.141	1.00 54.05	AAAA
MOTA	1258	CE	LYS	160		39.236	11.343	69.577	1.00 62.87	AAAA
ATOM	1259	NZ	LYS.	160		38.154	11.890	70.446	1.00 68.11	AAAA
ATOM-	1260	C	LYS	160		36.599	15.822	68.225	1.00 21.12	AAAA
ATOM	1261	Ō	LYS	160		35.632	15.672	68.051	1.00 22.43	AAAA AAAA
MOTA	1262	N	ARG	161		36.476	17.042	68.733	1.00 19.68	AAAA
ATOM	1263	CA	ARG	.161		35.164	17.594	69.073	1.00 20.84	AAAA
ATOM	1264	CB	ARG	161		34.865	17.467	70.572	1.00 26.02 1.00 28.47	AAAA
ATOM	1265	CG	ARG	161		34.715	16.031	71.080	1.00 28.47	AAAA
MOTA	1266	CD	ARG	161		34.213	16.025	72.523 73.445	1.00 30.38	AAAA
MOTA	1267	NE	ARG	161	•	35.098	16.734 16.278	73.883	1.00 32.33	AAAA
MOTA	1268	CZ	ARG	161		36.272	15.094	73.489	1.00 31.49	AAAA
ATOM	1269		ARG	161		36.724 37.003	17.014	74.712	1.00 38.54	- AAAA
ATOM	1270		ARG	161		35.171	17.014	68.680	1.00 18.98	AAAA
ATOM	1271	C	ARG	161		35.552	19.932	69.460	1.00 23.57	AAAA
MOTA	1272	0	ARG	161 162		34.743	19.332	67.458	1.00 19.82	AAAA
MOTA	1273	N	ILE	162		34.744	20.700	66.947	1.00 17.81	AAAA
MOTA	1274	CA	ILE ILE	162		35.522	20.717	65.626	1.00 18.33	AAAA
MOTA	1275	CB	ILE	162		35.542	22.110	65.042	1.00 13.65	AAAA
MOTA	1276	CG2		162		36.937	20.200	65.895	1.00 18.15	AAAA
ATOM	1277 1278	CD1		162		37.722	19.852	64.670	1.00 22.52	AAAA
MOTA	1278	C	ILE	162		33.316	21.184	66.724	1.00 14.71	AAAA
ATOM	1280	Ö	ILE	162		32.520	20.492	66.126	1.00 17.99	AAAA
MOTA MOTA	1281	N	LEU	163		32.996	22.374	67.217	1.00 16.93	AAAA
ATOM	1282	CA	LEU	163		31.653	22.902	67.061	1.00 20.73	АААА АААА
ATOM	1283	СВ	LEU	163		31.115	23.376	68.421	1.00 18.45	AAAA
ATOM	1284	CG	LEU	163		29.846	24.236		1.00 19.99 1.00 15.66	AAAA
ATOM	1285		LEU	163		28.657	23.408	67.975	1.00 13.00	AAAA
ATOM	1286	CD2	LEU	163		29.609	24.751	69.870 66.106	1.00 18.40	AAAA
ATOM	1287	С	LEU	163		31.705	24.071	66.188	1.00 18.65	AAAA
MOTA	1288	0	LEU	163		32.607	24.889 24.128	65.186	1.00 16.97	AAAA
MOTA	1289	N	TYR	164		30.752 30.656	25.246	64.252	1.00 11.76	AAAA
MOTA	1290	CA	TYR	164		30.782	24.754	62.816	1.00 14.07	AAAA
MOTA	1291	CB	TYR	164 164		30.782	25.851	61.797	1.00 14.51	AAAA
ATOM	1292	CG	TYR TYR	164		31.573	26.822	61.562	1.00 27.08	AAAA
MOTA	1293	CE1		164		31.353	27.832	60.598	1.00 26.21	AAAA
MOTA	1294 1295	CD2		164		29.415	25.916	61.070	1.00 21.45	AAAA
ATOM	1295		TYR	164		29.193	26.891	60.137	1.00 21.89	AAAA
MOTA MOTA	1297	cz	TYR	164		30.148	27.839	59.896	1.00 16.35	AAAA AAAA
ATOM	1298	OH	TYR	164		29.857	28.764	58.913	1.00 27.44	AAAA
ATOM	1299	C	TYR	164		29.279	25.873	64.463	1.00 15.67	AAAA
MOTA	1300	0	TYR	164		28.760	25.177	64.455	1.00 16.07 1.00 14.52	AAAA
MOTA	1301	N	ILE	165		2940	27.187	64.674 64.893	1.00 14.32	AAAA
ATOM	1302	CA	ILE	165		27.178	27.887	66.254	1.00 13.31	AAAA
MOTA	1303	CB	ILE	165		27.959	28.596 29.359	66.419	1.00 13.06	AAAA
MOTA	1304		ILE	165		26.654 28.172		67.376		AAAA
MOTA	1305		LILE	165		28.172	28.209		1.00 15.02	AAAA
MOTA	1306		LILE	165		27.853			1.00 20.75	AAAA
MOTA	1307	C	ILE	165 165		28.759			1.00 16.67	AAAA
MOTA	1308	0	ILE	166		26.725			1.00 15.37	AAAA
MOTA	1309	N	ASP ASP	166		26.503			1.00 15.63	AAAA
MOTA	1310 1311	CA CB	ASP	166		26.276	_		1.00 12.31	AAAA
MOTA		CG	ASP	166		26.279		59.393	1.00 16.37	AAAA
MOTA	1312 1313		1 352	166		25.378	30.508			AAAA
ATOM	1313		2 ASP	166		27.187	29.428			AAAA
ATOM	1314		ASP	166		25.334	30.740		1.00 15.54	AAAA AAAA
MOTA MOTA	1316		ASP	166		24.160				AAAA
ATOM	1317		LEU	167		25.647				AAAA
ATOM	1318			167		24.598	32.993			AAAA
ATCM	1319		LEU	167		25.051				AAAA
ATCM	1320		LEU	167		25.345	33.239	- 05.031	. 1.00 17.40	•
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				5				
				25.635	34.271	66.169	1.00 28.82	AAAA
MOTA	1321 CD1		167	24.148		65.513	1.00 18.59	AAAA
MOTA	1322 CD2		167	24.122	33.776		1.00 12.62	AAAA
MOTA	100-		167 167	23.288	34.678		1.00 15.00	AAAA
MOTA			168	24.667	33.431		1.00 14.35	AAAA AAAA
MOTA			168	24.277	34.056		1.00 19.50	
MOTA			168	25.060	33.409	57.880	1.00 25.15	AAAA AAAA
MOTA			168	24.908	34.145	56.573	1.00 48.45	AAAA
MOTA	1300		168	25.477	35.247	56.454	1.00 64.45	AAAA
MOTA	1329 OD1 1330 OD2		168	24.215	33.633	55.668	1.00 44.71 1.00 16.30	AAAA
MOTA		ASP	168	22.787	33.751	58.834	1.00 18.30	AAAA
MOTA		ASP	168	22.327	32.696	59.252	1.00 17.72	AAAA
ATOM ATOM	1333 N	ALA	169	22.059	34.657	58.175 57.934	1.00 19.61	AAAA
ATOM	1334 CA	ALA	169	20.618	34.503	· - ·	1.00 13.56	AAAA
MOTA	1335 CB	ALA	169	20.006	35.856	56.926	1.00 18.23	AAAA
ATOM	1336 C	ALA	169	20.277	33.400 33.159	56.641	1.00 17.20	AAAA
MOTA	1337 0	ALA	169	19.105	32.750	56.373	1.00 16.53	AAAA
ATOM	1338 N	HIS	170	21.301 21.075	31.652	55.436	1.00 17.51	AAAA
ATOM	1339 CA	HIS	170	21.616	31.973	54.033	1.00 22.32	AAAA
MOTA	1340 CB	HIS	170	20.954	33.142	53.377	1.00 25.38	AAAA
MOTA	1341 CG	HIS	170	19.934	33.196	52.487	1.00 19.33	AAAA
MOTA		HIS	170 170	21.308	34.448	53.638	1.00 18.17	AAAA
ATOM		HIS	170	20.535	35.257	52.935	1.00 30.34	AAAA AAAA
MOTA		HIS HIS	170	19.692	34.523	52.229	1.00 17.51	AAAA
MOTA		HIS	170	21.781	30.413	55.967	1.00 16.72	AAAA
ATOM	1346 C 1347 O	HIS	170	22.827	30.511	56.610	1.00 15.92 1.00 15.28	AAAA
MOTA	1347 O	HIS	171	21.209	29.245	55.682	1.00 13.20	AAAA
MOTA MOTA	1349 CA	HIS	171	21.751	27.961	56.123 55.814	1.00 12.00	AAAA
MOTA	1350 CB	HIS	171	20.702	26.878	55.980	1.00 17.27	AAAA
MOTA	1351 CG	HIS	171	21.180	25.468 24.447	55.090	1.00 12.48	AAAA
MOTA	1352 CD2	HIS	171	21.249 21.622			1.00 26.73	AAAA
ATOM		HIS	171	21.022		57.021	1.00 15.98	AAAA
MOTA	1354 CE1	HIS	171 ·	21.729			1.00 20.03	AAAA
MOTA		HIS	171 171	23.107			1.00 15.55	AAAA
MOTA	1356 C	HIS	171	23.318			1.00 17.03	AAAA AAAA
ATOM	1357 0	HIS CYS	172	24.026		56.323		AAAA
MOTA	1358 N 1359 CA	CYS	172	25.350	26.675			AAAA
MOTA	1359 CA 1360 CB	CYS	172	26.330				AAAA
MOTA	1361 SG	CYS	172	25.680				AAAA
MOTA MOTA	1362 C	CYS	172	25.212			^-	AAAA
ATOM	1363 0	CYS	172	25.750				AAAA
ATOM	1364 N	ASP	173	24.516	5 25.173 2 23.865		1.00 14.75	AAAA
ATOM	1365 CA		173	24.302 23.339		_	1.00 17.73	AAAA
ATOM	1366 CB		173	23.76			3 1.00 22.84	AAAA
MOTA	1367 CG		173	23.10		8 50.216	5 1.00 18.68	AAAA
MOTA		1 ASP	173 173	24.73		8 51.50 <i>4</i>		AAAA AAAA
ATOM		2 ASP ASP	173	25.59	0 23.14	5 53.149		AAAA
ATOM	1370 C	ASP	173	25.68	4 21.92	2 53.27	9 1.00 16.48	AAAA
MOTA		GLY	174	26.58	3 23.91	2 52.70		AAAA
MOTA			174	27.86	9 23.34		4	AAAA
MOTA MOTA			174	28.50				AAAA
ATOM		GLY	174	28.97	0 21.58			AAAA
ATOM		VAL	175	28.55	4 23.45	-		AAAA
ATOM		VAL	175	29.13	6 22.92			AAAA
ATOM	1378 CE	3 VAL	175	29.20			7 1.00 15.35	AAAA
ATOM	1379 CC	31 VAL	175	29.92 29.92		·	6 1.00 15.62	AAAA
ATOM	1380 CC	32 VAL	175	29.92		_	7 1.00 19.21	AAAA
ATON	1381 C		175	28.87			1.00 17.75	AAAA
ATON	1 1382 0	VAL	175 176	26.99		8 56.36	1.00 17.74	AAAA A AAA
ATC			176	26.16	20.68	35 56.83	1.00 15.66	AAAA
ATO				24.6	78 20.9°	73 56.59		AAAA
ATO				23.7			1.00 17.00	
OTA	4 1386 C	۰ .						

АТОМ	1387	CD (GLN	176	22.325	20.106		1.00 21.52	AAAA AAAA
ATOM	1388		GLN	176	21.850	21.016		1.00 21.72 1.00 20.30	AAAA
MOTA	1389	NE2	GLN	176	21.581	19.348	56.064 56.121	1.00 20.30	AAAA
ATOM	1390	C (GLN	176	26.527	19.387 18.354	56.748	1.00 17.46	AAAA
MOTA	1391	-	GLN	176	26.751 26.581	19.443	54.799	1.00 22.24	AAAA .
MOTA	1392		GLU	177	26.909	18.251	54.021	1.00 19.67	AAAA
MOTA	1393		GLU	177 177	26.857	18.587	52.533	1.00 15.55	AAAA
MOTA	1394		GLU	177	27.131	17.388	51.623	1.00 20.24	AAAA
MOTA	1395		GLU GLU	177	26.960	17.740	50.159	1.00 27.00	AAAA
MOTA	1396 1397	OE1		177	27.974	17.935	49.450	1.00 30.23	AAAA
MOTA MOTA	1398		GLU	177	25.796	17.853	49.725	1.00 26.89	AAAA
ATOM	1399		GLU	177	28.284	17.713	54.376	1.00 20.42	AAAA AAAA
ATOM	1400	0	GLU	177	28.486	16.503	54.527	1.00 17.05 1.00 19.67	AAAA
MOTA	1401		ALA	178	29.233	18.626	54.527 54.839	1.00 19.07	AAAA
ATOM	1402		ALA	178	30.611	18.259 19.519	54.839	1.00 12.76	AAAA
MOTA	1403		ALA	178	31.464 30.806	17.418	56.106	1.00 17.56	AAAA
MOTA	1404	-	ALA	178 178	31.690	16.555	56.167	1.00 17.72	AAAA
MOTA	1405		ALA	179	29.981	17.656	57.116	1.00 18.82	AAAA
MOTA	1406 1407	-	PHE PHE	179	30.124	16.945	58.379	1.00 20.26	AAAA
MOTA	1407		PHE	179	30.554	17.948	59.439	1.00 13.17	AAAA
MOTA MOTA	1409		PHE	179	31.779	18.693	59.048	1.00 16.28	AAAA
ATOM	1410	CD1		179	31.705	20.017	58.610	1.00 13.77	AAAA AAAA
ATOM	1411		PHE	179	33.002	18.031	58.995	1.00 15.57 1.00 20.03	AAAA
ATOM	1412		PHE	179	32.845	20.673	58.114 58.500	1.00 20.03	AAAA
ATOM	1413		PHE	179	34.145	18.677 20.002	58.058	1.00 20.50	AAAA
MOTA	1414	CZ	PHE	179	34.060 28.882	16.219	58.833	1.00 18.52	AAAA
MOTA	1415	C	PHE	179 179	28.773	15.828	60.000	1.00 20.21	AAAA
MOTA	1416	о И	PHE TYR	180	27.969	16.016	57.895	1.00 18.33	AAAA
MOTA	1417 1418	CA	TYR	180	26.698	15.379	58.176	1.00 19.93	AAAA
MOTA MOTA	1419	CB	TYR	180	25.874	15.310	56.894	1.00 20.97	AAAA AAAA
ATOM	1420	CG	TYR	180	24.402	15.341	57.159	1.00 19.80	AAAA
ATOM	1421	CD1	TYR	180	23.565	14.337	56.686 56.898	1.00 23.87 1.00 21.32	AAAA
ATOM	1422	CE1	TYR	180	22.203	14.391 16.416	57.865	1.00 19.02	AAAA
MOTA	1423	CD2	TYR	180	23.831 22.470	16.410	58.084	1.00 26.84	AAAA
MOTA	1424	CE2	TYR	180	21.659	15.462	57.594	1.00 30.54	AAAA
MOTA	1425	CZ	TYR TYR	180 180	20.310	15.514	57.794	1.00 22.81	AAAA
ATOM	1426 1427	OН С	TYR	180	26.855	13.970	58.737	1.00 22.61	AAAA
MOTA MOTA	1428	0	TYR	180	26.064	13.526	59.579	1.00 23.44	AAAA
ATOM	1429	N	ASP	181	27.893	13.298	58.253	1.00 22.27	AAAA AAAA
ATOM	1430	CA	ASP	181	28.245	11.920	58.590	1.00 33.84 1.00 41.74	AAAA
ATOM	1431	CB	ASP	181	28.916	11.318	57.339 57.662	1.00 57.71	AAAA
MOTA	1432	CG	ASP	181	30.035 30.999	10.363 10.780		1.00 61.40	AAAA
MOTA	1433		ASP	181	29.965	9.197		1.00 65.77	AAAA
ATOM	1434		ASP	181 181	29.107	11.654		1.00 30.21	AAAA
MOTA	1435	C	ASP ASP	181	29.307	10.497	_	1.00 27.84	AAAA
MOTA	1436 1437	O N	THR	182	29.615	12.696	60.480	1.00 27.53	AAAA
MOTA MOTA	1438	CA	THR	182	30.472	12.466		1.00 21.19	AAAA AAAA
ATOM	1439	СB	THR	182	31.918	12.977		1.00 26.55	AAAA
ATOM	1440	OG1		182	32.729	12.763		1.00 25.62 1.00 21.67	AAAA
ATOM	1441	CG2	THR	182	31.922			1.00 25.02	AAAA
ATOM	1442	С	THR	182	30.010				AAAA
MOTA	1443	0	THR	182	29.306	_			AAAA
MOTA	1444	N	ASP	183	30.434 30.086			1.00 21.52	AAAA
ATCM	1445		ASP	183 183	29.735			1.00 28.52	AAAA
ATOM	1446		ASP ASP	183	30.920			1.00 32.30	AAAA
ATCM	1447 1448		ASP	183	31.667		65.565	1.00 30.99	AAAA
MOTA	1449	_	ASP	183	31.095	10.326			AAAA AAAA
Mota Mota	1450		ASP		31.257				AAAA
ATOM	1451		ASP	183	31.236				AAAA ·
ATOM	1452		GLN	184	32.286	13.909	65.131	. 1.00 21.33	•
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			104	33.437 14	.672 6		.00 17.65	AAAA
MOTA	1453 CA		184 184		1.243 6		.00 21.36	AAAA AAAA
ATOM	1454 CF		184	35.068 12			.00 27.38	AAAA
MOTA	1455 CC	=	184	36.485 12			.00 31.96 .00 29.90	AAAA
MOTA		E1 GLN	184	50.05			.00 31.84	AAAA
MOTA		E2 GLN	184			65.599 1 65.382 1	.00 18.54	AAAA
MOTA MOTA	1459 C		184 .		6.165 6 7.009 6	65.972 1	.00 18.11	AAAA
ATOM	1460 0	* .	184			64 519 1	.00 19.18	AAAA
MOTA	1461 N		185	32.258 1 31.934 1		64 267 1	00 21.57	AAAA
MOTA	1462 C		185	32.261 1		62 807 1	.00 22.64	AAAA
MOTA	1463 C		185 · 185		9.768	v = · · ·	00 16.26	AAAA AAAA
MOTA		G1 VAL G2 VAL	185	33.722 1	7.924		.00 16.77	AAAA
MOTA		-	185	30.449 1			L.00 16.91 L.00 20.79	AAAA
ATOM	1466 C		185			• • • -	1.00 20.73	AAAA
MOTA	1468 N		186			65.153 65.435	1.00 16.22	AAAA
ATOM ATOM		A PHE	186	20.44	.9 . 446 .9 . 559	66.952	1.00 16.83	AAAA
MOTA		B PHE	186		9.682	67.299	1.00 17.96	AAAA.
ATOM	1471	G PHE	186	26.319	18.656	67.968	1.00 23.24	AAAA
MOTA		D1 PHE	186 186	26.240	20.797		1.00 15.41	AAAA AAAA
MOTA	1473	D2 PHE	186		18.738		1.00 18.99	AAAA
MOTA	1474	CE1 PHE	186	24.879	20.887	• –	1.00 24.05 1.00 22.93	AAAA
MOTA		CZ PHE	186	24.234	19.846	67.838	1.00 22.93	AAAA
ATOM		C PHE	186		20.789	64.778 64.993	1.00 19.37	AAAA
MOTA MOTA		O PHE	186	4,	21.725 20.874	63.961	1.00 19.67	AAAA
ATOM		n val	187		22.116	63.277	1.00 17.74	AAAA
MOTA		CA VAL	187		21.914	61.720	1.00 18.65	AAAA
MOTA		CB VAL	187 187		23.211	61.024	1.00 17.31	AAAA AAAA
MOTA		CG1 VAL	187	28.359	21.453	61.194	1.00 16.65	AAAA
MOTA		C VAL	187	25.732	22.637	63.746	1.00 18.46 1.00 20.64	AAAA
MOTA	1484 1485	O VAL	187	24.752	21.903	63.76 4 64.150	1.00 14.42	AAAA
MOTA ATOM	1486	N LEU	188	25.708	23.899 24.563	64.567	1.00 16.68	AAAA
ATOM	1487	CA LEU	188	24.482 24.568	25.070	66.009	1.00 13.98	AAAA
ATOM	1488	CB LEU	188	23.522	26.119	66.450	1.00 13.66	AAAA
MOTA	1489	CG LEU	188	22.103	25.556	66.401	1.00 15.55	AAAA AAAA
MOTA	1490	CD1 LEU	188 188	23.844	26.585	67.861	1.00 16.40	AAAA
MOTA	1491	C LEU	188	24.272	25.756	63.667	1.00 20.01 1.00 18.86	AAAA
ATOM	1492 1493	O LEU	188	25.164	26.595	63.506 63.057	1.00 14.46	AAAA
ATOM ATOM		N SER	189	23.106	25.845 27.011		1.00 14.56	AAAA
ATOM		CA SER	189	22.841	26.668		1.00 15.55	AAAA
ATOM		CB SER	189	22.896 22.619	27.851		1.00 14.09	AAAA
MOTA	1497	OG SER	189	21.487	27.606	62.508	1.00 15.24	AAAA AAAA
ATOM	1498	C SER	189 189	20.509	26.885	62.578	1.00 21.46	AAAA
ATOM		O SER	190	21.423	28.921	62.690	1.00 14.92 1.00 15.54	AAAA
ATOM		N LEU	190	20.128	29.572		1.00 21.02	AAAA
ATOM		CB LEU	190	20.084	30.663	63.906 65.339	17	AAAA
MOTA MOTA		CG LEU	190	20.594	30.532 31.437	_		AAAA
ATOM		CD1 LEU		19.736 20.547	29.130		1.00 19.08	AAAA
ATON	1 1505	CD2 LEU		20.035	30.250		1.00 14.31	AAAA AAAA
ATO	4 1506	C LEU		21.031	30.752	2 60.951	1.00 15.43	AAAA
IOTA		O LEU		18.855	30.28		1.00 16.88	AAAA
ATO		N HIS		18.732	30.88			AAAA
ATO:		CA HIS		19.506	30.01			AAAA
ATO:		CG HIS		19.229	28.54		^ ^^	AAAA
ATO ATO		CD2 HIS	5 191	19.941	27.57 27.94	-	1.00 21.22	AAAA
ATO		ND1 HIS	5 191	18.073 18.088			2 1.00 17.22	AAAA
ATO	M 1514	CE1 HIS	5 191	19.212	26.41		2 1.00 20.70	аааа Аааа
ATO	M 1515	NE2 HI		17.277		6 59.11	0 1.00 16.19	AAAA
ATO	M 1516			16.381	30.48	39 59.76		AAAA
ATO				17.044		58.04	5 1.00 14.78	
ATC	M 1518	· 14 GT						

					11601010				
					15.683	31.968	57.516	1.00 16.33	AAAA
MOTA			GLN	192 192	15.669	32.871	56.283	1.00 17.07	AAAA
ATOM			GLN	192	16.174	34.270	56.498	1.00 18.15	AAAA
MOTA	1521		GLN	192	16.408	34.965		1.00 14.74	AAAA
MOTA	1522		GLN	192	15.490	35.566		1.00 20.46	AAAA
MOTA	1523	OE1		192	17.630	34.839	54.665	1.00 13.44	AAAA
ATOM -	1524	NE2		192	15.262	30.584		1.00 15.06	AAAA
MOTA	1525		GLN GLN	192	16.071	29.843	J U	1.00 19.23	AAAA
MOTA	1526		SER	193	14.007	30.223		1.00 15.63	AAAA
MOTA	1527 1528	N CA	SER	193	13.561	28.907		1.00 13.84	aaaa aaaa
ATCM	1529	CB	SER	193	12.097	28.677		1.00 17.28 1.00 17.58	AAAA
MOTA MOTA	1530	OG	SER	193	11.639	27.439	56.750	1.00 17.38	AAAA
ATOM	1531	c	SER	193	13.687	28.704		1.00 18.44	AAAA
MOTA	1532	Ō	SER	193	13.400	29.601	54.569 54.928	1.00 14.59	AAAA
ATOM	1533	N	PRO	194	14.103	27.505	55.782	1.00 19.22	AAAA
ATOM	1534	CD	PRO	194	14.335	26.325	53.762	1.00 15.30	AAAA
ATOM	1535	CA	PRO	194	14.268	27.143 25.737	53.573	1.00 18.33	AAAA
ATOM	1536	CB	PRO	194	14.892 15.359	25.587	55.007	1.00 22.34	AAAA
MOTA	1537	CG	PRO	194	12.880	27.104	52.866	1.00 16.40	AAAA
MOTA	1538	С	PRO	194	12.757	27.003	51.640	1.00 19.43	AAAA
MOTA	1539	0	PRO	194 195	11.828	27.151	53.681	1.00 20.57	AAAA
MOTA	1540	N	GLU	195	10.483	27.161	53.099	1.00 30.15	AAAA
ATOM	1541	CA	GLU GLU	195	9.386	27.037	54.173	1.00 31.91	AAAA
ATOM	1542	CB	GLU	195	8.987	28.325	54.879	1.00 45.60	AAAA
ATOM	1543 1544	CG CD	GLU	195	7.880	29.119	54.174	1.00 34.45	AAAA AAAA
MOTA	1545	OE1	GLU	195	7.635	30.259	54.612	1.00 43.98 1.00 38.39	AAAA
MOTA MOTA	1546		GLU	195	. 7.241	28.627	53.210	1.00 36.35	AAAA
ATOM	1547	C	GLU	195	10.333	28.474	52.318	1.00 24.59	AAAA
ATOM	1548	ō	GLU	195	9.522	28.557	51.395 52.669	1.00 18.16	AAAA
ATOM	1549	N	TYR	196	11.116	29.501	51.922	1.00 15.81	AAAA
ATOM	1550	CA	TYR	196	11.024	30.753 31.801	52.690	1.00 20.01	AAAA
ATOM	1551	CB	TYR	196	10.208 10.868	32.353	53.932	1.00 19.77	AAA.
MOTA	1552	CG	TYR	196	11.779	33.408	53.853	1.00 18.24	AAAA
MOTA	1553	CD1		196	12.407	33.898	54.988	1.00 18.50	AAAA
MOTA	1554	CEI		196 196	10.598	31.801	55.185	1.00 18.12	AAAA
MOTA	1555	CD2		196	11.223	32.283	56.339	1.00 21.09	AAAA
ATOM	1556	CE2	TYR	196	12.125	33.326	56.235	1.00 20.39	AAAA AAAA
MOTA	1557 1558	OH	TYR	196	12.759	33.784		1.00 16.20	AAAA
MOTA	1559	Ċ	TYR	196	12.342	31.372		1.00 16.89 1.00 23.08	AAAA
MOTA MOTA	1560	Ö	TYR	196	12.336			1.00 23.00	AAAA
MOTA	1561	N	ALA	197	13.466	30.817		1.00 17.32	AAAA
ATOM	1562	CA	ALA	197	14.754	. 31.400	51.512 52.659	1.00 20.74	AAAA
ATOM	1563	CB	ALA	197		32.261 30.392		1.00 13.51	AAAA
ATOM	1564	C	ALA	197	15.814			1)0 19.35	AAAA
ATOM	1565	0	ALA	197	15.787 16.757			1. 10 18.01	AAAA
ATOM	1566		PHE	198	17.861			1.00 17.97	AAAA
ATOM	1567		PHE	198 198	18.929		49.119	1.00 20.38	AAAA
ATOM	1568			198	20.094			1.00 23.61	AAAA
MOTA	1569		PHE 1 PHE	198	20.039	29.660	47.245		AAAA AAAA
ATOM	1570		2 PHE	198	21.229	29.899	49.321	1.00 19.06	AAAA
ATOM	1571 1572			198	21.093	28.908			AAAA .
ATOM	1573			198	22.29	29.14			AAAA
MOTA MOTA	1574			198	22.21				AAAA
ATOM	1575		PHE	198	18.45				AAAA
ATOM	` -		PHE	198	18.55				AAAA
ATOM			PRO	199	18.94				aaaa
ATOM				199					AAAA
ATOM			PRO	199					AAAA
ATOM								1.00 23.16	AAAA
MOTA	1581							2 1.00 30.97	AAAA
ATCM	1582		PRO	_				2 1.00 23.25	AAAA
-atom	1583		PRO						AAAA
ATOM	1584	4 N	PHE	200	, 20.02		•		•
••									

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	_		E 20		15.319		49.752	1.00 20	. 27	AAAA
MOTA		CA PHI	_	•	14.840	26.533	48.346	1.00 19	. 7 /	AAAA AAAA
MOTA		CB PHI CG PHI	-		14.752	27.999	48.082	1.00 18	.06	AAAA
ATOM		CG PHI CD1 PHI			15.742	28.644	47.346	1.00 18 1.00 19	.97	AAAA
ATOM	1589	CD2 PH	E 20		13.654	28.736	48.519	1.00 13	. 67	AAAA
ATOM	1590	CE1 PH			15.635	30.003	47.042	1.00 21	60	AAAA
MOTA	1591	CE2 PH		00	13.539	30.101	48.221 47.482	1.00 18	. 93	AAAA
MOTA MOTA	1592	CZ PH		00	14.527	30.736	49.845	1.00 18	. 44	AAAA
ATOM	1593	C PH		00	15.294	24.637 24.049	50.272	1.00 20	.74	AAAA
MOTA	1594	O PH		00	14.302	24.049	49.418	1.00 20	.77	AAAA
ATOM	1595	N GL		01	16.384 16.522	22.542	49.399	1.00 27	.34	AAAA
ATOM	1596	CA GL	_	01	17.498	22.146	48.284	1.00 28	1.99	AAAA
MOTA	1597	CB GL		01	17.024	22.458	46.881	1.00 34	. 82	AAAA
MOTA	1598	CG GL	_	01 01	18.123	22.265	45.848	1.00 32	2.40	AAAA AAAA
MOTA	1599	CD GL		01	18.701	21.155	45.769	1.00 38	3.28	AAAA
ATOM	1600	OE1 GI		01	18.405	23.230	45.111	1.00 40).08	AAAA
MOTA	1601			01	17.007	21.891	50.695	1.00 23	3.JI 3.17	AAAA
MOTA	1602	C GI		.01	16.845	20.689	50.886	1.00 2	0.17	AAAA
ATOM	1603 1604	N L		02	17.619	22.681	51.571	1.00 2	7 01	AAAA
MOTA	1605			.02	18.178	22.177	52.829 52.634	1.00 1	9.24	AAAA
MOTA MOTA	1606			02	19.666	21.862	51.611	1.00 3	6.04	AAAA
ATOM	1607		ys 3	202	19.903	20.769 21.162	50.648	1.00 4	5.11	AAAA
MOTA	1608			02	20.997	20.209	49.463	1.00 5	5.83	AAAA
MOTA	1609			202	21.060 22.024	20.203	48.422	1.00 2	8.09	AAAA
ATOM	1610		-	202	18.016	23.240	53.899	1.00 1	7.02	AAAA
ATOM	1611			202	17.705	24.381		1.00 2	0.20	AAAA
MOTA	1612	_	·	202 -	18.232	22.875		1.00 2	2.94	AAAA
MOTA	1613			203 203	18.064	23.850	56.223	1.00 1	9.38	AAAA AAAA
MOTA	1614			203	16.874	23.564	57.128		20.48	AAAA
MOTA	1615	_		203	16.607	24.312			L8.33	AAAA
ATOM	1616			204	16.150	22.484			20.42	AAAA
MOTA	1617 1618			204	14.983		57.670		19 97	AAAA
MOTA	1619			204	14.018				19.63	AAAA
MOTA MOTA	1620			204	13.441				24.96	AAAA
ATOM	1621	CD1 F	PHE	204	14.137	21.801 22.523			18.92	AAAA
ATOM	1622	CD2 I	PHE	204	12.230			7 1.00	20.66	AAAA
MOTA	1623	CE1	PHE	204	13.636 11.720			7 1.00	24.86	AAAA
ATOM	1624		PHE	204	12.422			0 1.00	23.66	AAAA
MOTA			PHE	204	15.376		3 59.00		18.73	AAAA AAAA
MOTA	1626	_	PHE	204 204	16.41	20.85	1 59.13		20.18	AAAA
MOTA	1627	-	PHE LEU	205	14.51	3 21.72	6 59.99		19.46	AAAA
MOTA			LEU	205	14.72	7 21.24	4 61.35	6 1.00	21.09	AAAA
MOTA			LEU	205	13.54	7 21.67	4 62.23	3 1.00	23.23	AAAA
MOTA			LEU	205	13.50		2 63.69		24.06	AAAA
ATOM		_	LEU	205	14.71	7 21.73			30.63	AAAA
MOTA MOTA			LEU	205	12.22	4 21.74			23.53	AAAA
ATOM			LEU	205	14.94	3 19.74 9 19.31		1.00	21.28	AAAA
ATOM			LEU	205	15.65 14.35			1.00	21.59	AAAA
ATOM		5 N	GLU	206	14.33			36 1.00	27.8 9	AAAA
ATOM			GLU	206	13.34			28 1.00	28.90	AAAA
ATOM	163		GLU	206	12.06		15 59.9	12 1.00	48.55	AAAA AAAA
MOTA	1 163		GLU	206 206	12.16	9 18.83	32 59.0		46.86	AAAA
MOTA			GLU	206	11.36	0 19.70	59 59.1		21.58	AAAA
MOTA			GLU GLU	206	13.07	76 18.8	33 58.1		63.58	AAAA
ATON			GLU	206	15.83	19 16.9			22.86 21.21	AAAA
ATO			GLU	206	16.0	71 15.7			25.04	AAAA
ATO		-	GLU	207	16.6	66 17.8	16 59.6		19.61	AAAA
ATO!		-	GLU	207	17.9		73 59.1		20.75	AAAA
ATOI		_	GLU	207	18.4		22 58.0 22 56.7		18.44	AAAA
ATO ATO	••	_	GLU	207	17.6	82 18.2			24.75	AAAA
ATO	••	9 CD	GLU	207	17.6	87 19.5 38 20.1			22.17	AAAA
ATO	•		GLU	207	18.7	JO 20.1	-			•
				•						

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. 501	1651	OE2	GLU	207	16.64		19.854	55.396	1.00		አልልል
ATOM ATOM	1652	C	GLU	207	18.92	21	17.379	60.350	1.00		AAAA
ATOM	1653	ō	GLU	207	19.50		18.416	60.687	1.00		AAAA
ATOM	1654	N	ILE	208	19.08		16.218	60.988	1.00		አልልል ልልልል
MOTA	1655	CA	ILE	208	19.93		16.138	62.168	1.00		AAAA
ATOM	1656	CB	ILE	208	19.13		15.652	63.403 64.653	1.00		አልአል
ATOM	1657	CG2	ILE	208	19.9		15.693	63.625		21.61	AAAA
ATOM	1658	CG1	ILE	208	17.9		16.561	64.786		41.40	AAAA
ATOM	1659	CD1	ILE	.208	17.0		16.160 15.260	61.981		24.74	AAAA
MOTA	1660	С	ILE	208	21.1 21.7	05	14.850	62.943		22.68	AAAA
MOTA	1661	0	ILE	208	21.5		14.969	60.738		22.80	AAAA
MOTA	1662	И	GLY GLY	209 209	22.6		14.153	60.535	1.00	20.43	AAAA
MOTA	1663	CA C	GLY	209	22.3		12.769	60.037		25.56	AAAA
MOTA	1664 1665	0	GLY	209	21.1		12.447	59.850	1.00	25.22	AAAA
MOTA	1666	N	GLU	210	23.3	73	11.944	59.888		26.07	AAAA
MOTA MOTA	1667	CA	GLU	210	23.2		10.601	59.348	1.00	25.78	AAAA AAAA
ATOM	1668	CB	GLU	210	23.4		10.731	57.835	1.00	28.27 56.41	AAAA
MOTA	1669	CG	GLU	210	23.0		9.569	56.965		55.37	AAAA
MOTA	1670	CD	GLŪ	210	23.1		9.952	55.495 55.075		52.00	AAAA
	1671		GLU	210	24.2		9.894	54.768	1.00	73.24	AAAA
MOTA	1672	OE2	GLU	210	22.1		9.709	59.936	1.00	31.85	AAAA
MOTA	1673	Ç	GLU	210	24.3 25.4	47	10.170	60.217	1.00	28.85	AAAA
MOTA	1674	0	GLU	210 211	24.0		8.431	60.121	1.00	27.84	AAAA
ATOM	1675	N	GLY GLY	211	24.9		7.502	60.657	1.00	26.25	AAAA
MOTA	1676	CA C	GLY	211	25.5		7.942	61.995	1.00	27.79	AAAA
MOTA	1677 1678	0	GLY	211	24.7	88	8.324	62.874		28.66	አልልአ አልልል
MOTA MOTA	1679	N	LYS	212	26.8	65	7.880	62.150		34.62	AAAA
MOTA	1680	CA	LYS	212	27.5		8.287	63.393	1.00	34.39 40.40	AAAA
MOTA	1681	CB	LYS	212	29.0		8.132	63.273		53.97	AAAA
ATOM	1682	CG	LYS	212	29.5		6.712	62.996 64.131		61.93	AAAA
MOTA	1683	CD	LYS	212	29.1 29.6		5.770 4.347	63.863	1.00	62.74	AAAA
MOTA	1684	CE	LYS	212	31.0		4.258	63.711	1.00	70.11	AAAA
MOTA	1685	NZ	LYS	212 212	27.3		9.741	63.725	1.00	36.04	AAAA
MOTA	1686	C	LYS LYS	212	27.		10.126	64.897		28.34	AAAA
ATOM	1687 1688	N 0	GLY	213	26.9		10.543	62.688	1.00	31.47	AAAA
MOTA	1689	CA	GLY	213	26.0		11.948	62.898	1.00	31.68	AAAA AAAA
MOTA MOTA	1690	c	GLY	213	25.		12.291	63.142	1.00	28.78	AAAA
ATOM	1691	ō	GLY	213	24.		13.460	63.259		28.54	AAAA
ATOM	1692	N	LYS	214	24.		11.292	63.222 63.463	1.00	31.11	AAAA
ATOM	1693	CA	LYS	214	22.		11.585 10.295	63.325	1.00	31.03	AAAA
ATOM	1694	CB	LYS	214	22. 20.		10.293	63.224	1.00	38.15	AAAA
ATOM	1695	CG	LYS	214	19.		9.115	62.844	1.00	40.49	AAAA
MOTA	1696	CD	LYS	214 214	18.		9.220	62.537	1.00	48.02	AAAA
ATOM	1697	CE NZ	LYS LYS	214	17.		7.924		1.00	44.99	AAAA
ATOM	1698 1699	C	LYS	214	22.		12.160		1.00	26.90	AAAA
ATOM	1700	ō	LYS	214	23.		11.524			33.33	AAAA AAAA
MOTA MOTA	1701	N	GLY	215	22.		13.376			24.38	AAAA
MOTA	1702	CA		215	22.		14.034			26.03	AAAA
ATOM	1703	C	GLY	215		298	15.115			0 23.34	AAAA
ATOM	1704	0	GLY	215		352	15.820			0 22.79	AAAA
ATOM	1705	N	TYR	216		152	15.260 16.257			0 25.51	AAAA
MOTA	1706	CA		216		217 592	15.576		1.0	0 20.54	AAAA
ATOM	1707	CB		216		900	14.671			0 26.47	AAAA
MOTA	1708	CG		216 216		221	13.464		1.0	0 28.96	AAAA
ATOM	1709			216		455	12.660		1.0	0 33.08	AAAA
ATOM	1710			216	27.	832	15.052	67.552	1.0	0 24.21	AAAA
ATOM	1711 1712			216	28.	074	14.254		_	0 34.45	AAAA eaac
ATOM	1712			216		378	13.063		_	0 40.53	ааа ааа
MOTA: MOTA	1714			216	27.	580	12.291			0 45.67 0 22.57	AAAA
ATOM	1715		TYR			104	17.391		_	0 19.70	AAAA
ATOM	1716		TYR	216	26	.097	18.014	64.126	. 1.0		•

			1 15						
		21	7 2	3.889	17.635	64.027	1.00 22.	88	AAAA AAAA
MOTA		ASN 21 ASN 21	• •	3.621	18.729	63.109	1.00 22	60	AAAA
MOTA		· · · · · · · · · · · · · · · · · · ·	• •	3.453	18.240	61.671	1.00 16	. 61	AAAA
MOTA		ASN 21 ASN 21		3.233	19.387	60.695	1.00 17 1.00 20	. 10	AAAA
MOTA	1120		7 2	2.098	19.704	60.307	1.00 20	. <i>2.3</i> 1.9	AAAA
MOTA	. . – –	•••	17 2	4.320	20:032	60.309	1.00 12	.10	AAAA
MOTA			17 2	2.311	19.296	63.630	1.00 17	. 63	AAAA
MOTA			17 2	1.381	18.550	63.894	1.00 17	.63	AAAA
MOTA			18 2	2.236	20.610	63.793	1.00 21	20	AAAA
MOTA	1725 N 1726 CA		18 2	1.014	21.197	64.320	1.00 21	73	AAAA
ATOM	1727 CB		18 - 2	1.186	21.547	65.808 66.647	1.00 32	30	AAAA
MOTA	1727 CB		18 1	9.906	21.702	67.944	1.00 24	.51	AAAA
MOTA				0.228	22.427	65.903	1.00 40	.08	AAAA
MOTA MOTA		LEU 2		18.862	22.464	63.554	1.00 19	.46	AAAA
ATOM	1731 C	LEU 2		20.700	22.459 23.425	63.615-	1.00 16	5.70	AAAA
MOTA	1732 0			21.467	22.441	62.824	1.00 15	5.43	AAAA
MOTA	1733 N			19.590 19.143	23.609	62.072	1.00 14	1.05	AAAA
MOTA	1734 CA			18.634	23.232	60.665	1.00 1	5.92	AAAA
ATOM	1735 CB			19.732	22.738	59.750	1.00 2	2.73	AAAA
ATOM	1736 CG			20.861	23.232	59.802	1.00 1	7.90	AAAA
ATOM				19.398	21.789	58.868	1.00 1	6.62	AAAA
ATOM				17.990	24.256	62.821	1.00 2	1.98	AAAA AAAA
MOTA	1739 C		219 219	17.075	23.569	63.262		8.65	AAAA
ATOM	1740 0		220	18.025	25.580	62.952		5.82	AAAA
MOTA	1741 N		220	16.951	26.298	63.640	1.00 1 1.00 1	5.22	AAAA
MOTA	1742 CA 1743 CB		220	17.522	27.115	64.823		5.70	AAAA
MOTA			220	16.411	27.912	65.479		9 11	AAAA
MOTA	1744 CG2 1745 CG3		220	18.246		65.823 66.632		2.75	AAAA
ATOM			220	17.350				8.80	AAAA
MOTA	1747 C	ILE	220	16.363				5.52	AAAA
MOTA MOTA	1748 0		220	16.810				16.72	AAAA
MOTA	1749 N	PRO	221	15.341			1.00	18.83	AAAA
MOTA	1750 CD	PRO	221 .	14.612			1.00	19.83	AAAA
ATOM	1751 CA	PRO	221	14.739 13.930			1.00	20.76	AAAA
ATOM	1752 CB		221	14.409			2 1.00	28.73	AAAA
ATOM	1753 CG		221	13.849		61.44		21.26	AAAA AAAA
ATOM	1754 C	PRO	221	13.061		62.31		22.46	AAAA
MOTA	1755 0	PRO	221 222	13.97	7 29.92	61.02		19.70	AAAA
MOTA	1756 N	LEU	222	13.209	31.01	8 61.61		21.62 16.46	AAAA
ATOM	1757 CA		222	14.16	3 31.97			18.65	AAAA
MOTA	1758 CE		222	14.86	8 31.23			21.32	AAAA
MOTA		ol LEU	222	16.02	6 32.07	2 64.01		19.98	AAAA
ATOM		D2 LEU	222	13.85			0 1.00	19.68	AAAA
ATOM		LEU	222	12.35	0 31.76			18.07	AAAA
ATOM ATOM		LEU	222	12.68	7 31.83 0 32.32			19.37	AAAA
ATOM			223	11.22			1.00	17.38	AAAA
ATOM		D PRO	223	10.72 10.26			3 1.00	19.59	AAAA
ATOM			223	9.00		-	74' 1.00	20.08	AAAA
ATOM			223	9.60			41 1.00	21.96	AAAA
ATOM	1 1768 C		223	10.60		58 59.73		23.15	AAAA
ATOM			223	11.52		01 60.2		15.81	AAAA AAAA
MOTA	4 1770 O		223	9.83			45 1.00	16.41	AAAA
ATO	4 1771 N		224	9.97		54 58.2		16.11	AAAA
ATO		A LYS	224 224	9.00		46 57.0		20.34	AAAA
ATO		B LYS	224	9.1	53 35.4	41 55.9		19.33	AAAA
ATO		G LYS	224	8.1	09 35.6	87 54.8		25.49	AAAA
ATO		D LYS	224	8.2	09 34.6) 24.14) 34.08	AAAA
OTA			224	7.2	07 34.8			15.77	AAAA
ATC			224	9.6	38 37.2			21.07	AAAA
OTA		LYS LYS	224	8.8				20.77	AAAA
ATO		4 GLY	225	10.2				20.30	AAAA
ATO	W1 =	CA GLY	225	9.9			_	0 20.63	AAAA
ATC ATC		GLY	225	10.5	56 39.2	.00 21	· - ··		•
AIC			•						

> mov	1702	O GLY	225	10.128	39.912		1.00 20.66	AAAA
ATOM	1783 1784	N LEU	226	11.540	38.395		1.00 20.37	AAAA
ATOM	1785	CA LEU	226	12.154	38.063		1.00 18.71	AAAA
ATOM	1786	CB LEU	226	13.354	37.145	62.670	1.00 13.63	AAAA
MOTA	1787	CG LEU	226	13.836	36.443	63.939	1.00 18.44	AAAA
MOTA	1788	CD1 LEU	226	12.834	35.329	64.243	1.00 18.09	AAAA
ATOM -		CD2 LEU		15.232	35.844	63.741	1.00 17.96	AAAA
MOTA	1789	C LEU	_	12.649	39.309	63.642	1.00 19.84	AAAA
MOTA	1790			13.320	40.151	63.052	1.00 18.13	AAAA
MOTA	1791			12.336	39.421	64.932	1.00 23.30	AAAA
ATOM	1792	_		12.815	40.571	65.692	1.00 20.88	AAAA
MOTA	1793	_		11.682	41.261	66.485	1.00 21.73	AAAA
MOTA	1794	•-		11.061	40.368	67 . 546 -	1.00 20.47	AAAA
MOTA	1795	CG ASN		11.762	39.736	68.341	1.00 23.80	AAAA
MOTA	1796	ND2 ASN		9.729	40.340	67.581	1.00 21.08	AAAA
MOTA	1797			13.950	40.152	66.612	1.00 25.24	- AAAA
MOTA	1798			14.282	38.965	66.702	1.00 18.54	AAAA
ATOM	1799			14.547	41.124	67.296	1.00 19.41	AAAA
ATOM	1800	N ASP		15.682	40.844	68.169	1.00 22.15	AAAA
MOTA	1801	CB ASP		16.208	42.141	68.802	1.00 16.82	AAAA
MOTA	1802 1803	CG ASP		16.852	43.060	67.796	1.00 30.68	AAAA
ATOM	1804	OD1 ASP		17.182	42.576	66.690	1.00 23.87	AAAA
ATOM	1805	OD1 ASI		17.053	44.256	68.123	1.00 25.02	AAAA
MOTA	1806	C ASE		15.440	39.835	69.265	1.00 18.83	AAAA
MOTA	1807	O ASE	_	16.298	39.002	69.536	1.00 16.28	AAAA
MOTA	1808	N ASN		14.291	39.930	69.928	1.00 20.73	AAAA
ATOM	1809	CA ASN		13.975	39.015	71.007	1.00 21.75	AAAA
ATOM	1810	CB ASN		12.706	39.483	71.712	1.00 19.46	AAAA
MOTA	1811	CG ASI		12.943	40.738	72.516	1.00 27.14	AAAA
MOTA	1812	OD1 ASN	-	13.588	40.691	73.556	1.00 33.03	AAAA
ATOM	1813	ND2 ASI		12.464	41.874	72.019	1.00 21.35	AAAA
MOTA	1814	C ASI		13.833	37.596	70.503	1.00 18.47	AAAA
ATOM	1815	O ASI		14.284	36.644	71.151	1.00 22.47	AAAA
MOTA	1816	N GL		13.252	37.454	69.319	1.00 17.79	AAAA AAAA
MOTA	1817	CA GL		13.081	36.125	68.748	1.00 21.18	AAAA
ATOM	1818	CB GL	-	12.152	36.193	67.536	1.00 20.54	AAAA
MOTA	1819	CG GL		10.765	36.714	67.890	1.00 28.98	AAAA
MOTA MOTA	1820	CD GL		9.870	36.816	66.677	1.00 24.35	AAAA
MOTA	1821	OE1 GL		10.360	37.296	65.638	1.00 22.00	AAAA
MOTA	1822	OE2 GL	-	8.683	36.443	66.772	1.00 24.99	AAAA
MOTA	1823	C GL		14.422	35.507		1.00 16.89	AAAA
MOTA	1824	O GL		14.663	34.326		1.00 19.45	AAAA
ATOM	1825	N PH		15.305			1.00 15.68	AAAA
ATOM	1826	CA PH		16.616			1.00 15.78	AAAA
ATOM	1827	CB PH		17.420	36.863		1.00 13.22	AAAA
ATOM	1828	CG PH		18.719	36.361		1 00 20.63 1 00 18.42	AAAA
MOTA	1829	CD1 PH		18.723			1 70 21.10	AAAA
MOTA	1830	CD2 PH		19.936			1.00 17.67	AAAA
MOTA	1831	CE1 PH		19.918			1.00 17.07	AAAA
MOTA	1832	CE2 PH		21.144				AAAA
MOTA	1833	CZ PH		21.130				AAAA
ATOM	1834	C PH		17.385				AAAA
ATOM	1835	о РН	E 231	17.869				AAAA
MOTA	1836	N LE		17.495				AAAA
MOTA	1837	CA LE		18.239				AAAA
ATOM	1838	CB LE		18.415				AAAA
MOTA	1839	_	ນ 232	19.214				AAAA
MOTA	1840			19.134	39.449	71.934		AAAA
ATOM	1841			20.659				AAAA
MOTA	1842			17.60				AAAA
ATOM	1843			18.309				AAAA
	1844	-		16.28				AAAA
ATOM	1845		E 233	15.58				AAAA
ATOM ATOM	1846		E 233	14.07			1.00 19.17	AAAA
ATOM	1847		E 233	13.28	32.44			AAAA
ATOM		· · · · · · · · · · · · · · · · · · ·		12.86	32.30	2 73.841	1.00 29.62	·
MION			• •	•				

					. 473	71.596	1.00 19.92	AAAA
1 mov	1849 C	D2 PHE	233			74.229	1.00 29.35	AAAA
ATOM ATOM		E1 PHE	233	22.0		71.966	1.00 25.37	AAAA
MOTA		E2 PHE	233			73.283	1.00 30.28	AAAA
ATOM	1852 C	Z PHE	233		JU	71.660	1.00 23.12	AAAA
ATOM	1853 C	PHE	233	16.041		72.332	1.00 18.35	AAAA
ATOM	1854 0	PHE	233	16.433	32.208	70.332	1.00 17.26	AAAA
ATOM	1855 N	ALA	234	15.961	31.026	69.562	1.00 17.67	AAAA
MOTA		A ALA	234	16.332	31.020	68.046	1.00 19.08	AAAA
MOTA		B ALA	234	16.085 17.786	30.641	69.800	1.00 16.31	AAAA
ATCM	1858 C	ALA	234	18.127	29.461	69.926	1.00 16.75	AAAA
ATOM	1859 C		234	18.646	31.643	69.846	1.00 16.73	AAAA
ATOM	1860 N		235	20.074	31.411	70.051	1.00 19.14	AAAA
ATOM	100	A LEU	235	20.823	32.742	69.956	1.00 21.72	AAAA AAAA
MOTA	T	B LEU	235 235	22.226	32.790	69.345	1.00 36.73	AAAA
MOTA		CG LEU	235	23.026	33.844	70.105	1.00 20.69	AAAA
MOTA	100	CD1 LEU	235	22.917	31.426	69.393	1.00 22.96	AAAA
MOTA	100-	CD2 LEU C LEU	235	20.354	30.776	71.421	1.00 18.71 1.00 18.59	AAAA
MOTA			235	21.028	29.747	71.522	1.00 18.59 1.00 25.43	AAAA
MOTA		O LEU N GLU	236	19.831	31.390	72.479	1.00 23.43	AAAA
MOTA	1000	CA GLU	236	20.046	30.883	73.839	1.00 23.18	AAAA
MOTA		CB GLU	236	19.335	31.777	74.860	1.00 38.53	AAAA
ATOM		CG GLU	236	19.725	33.229	74.777	1.00 30.33	AAAA
MOTA		CD GLU	236	18.857	34:119	75.648 75.428	1.00 45.43	AAAA
MOTA		OE1 GLU	236	17.617	34.171	76.548	1.00 48.76	AAAA
ATOM		OE2 GLU	236	19.425	34.768	74.011	1.00 25.85	AAAA
ATOM ATOM	1875	C GLU	236	19.541	29.452	74.511	1.00 21.36	AAAA
ATOM	1876	O GLU	236	20.222	28.603 29.193	73.501	1.00 23.16	AAAA
MOTA	1877	N LYS	237	18.343	27.871	73.610	1.00 17.06	AAAA
MOTA	1878	CA LYS	237	17.752 16.282	27.943	73.193	1.00 26.98	AAAA
ATOM	1879	CB LYS	237	15.483	26.711	73.519	1.00 52.00	AAAA
MOTA	1880	CG LYS	237	14.078	27.110		1.00 56.40	AAAA
MOTA	1881	CD LYS	237	14.131	27.979		1.00 52.03	AAAA AAAA
MOTA	1882	CE LYS	237 237	12.782	28.421	75.614		AAAA
MOTA	1883	NZ LYS	237	18.502		72.785		AAAA
MOTA	1884	C LYS	237	18.691	25.692			AAAA
MOTA	1885		238	18.932	27.187			AAAA
MOTA	1886	N SER	238	19.649	26.208	70.776		AAAA
ATOM	1887	CB SER	238	19.745		69.307	** ** **	AAAA
MOTA	1888 1889	OG SER	238	20.475	27.858	3 69.160 3 71.361		AAAA
ATOM	1890	C SER	238	21.039				AAAA
ATOM	1891	O SER	238	21.521				AAAA
MOTA MOTA	1892	N LEU	239	21.690	26.937 26.703			AAAA
ATOM	1893	CA LEU	239	23.004			6 1.00 18.39	AAAA
MOTA		CB. LEU	239	23.652 23.985	-	-	3 1.00 20.02	AAAA
ATOM		CG LEU	239	24.538			6 1.00 27.02	AAAA
ATOM		CD1 LEU	239	25.01			3 1.00 20.31	AAAA
MOTA		CD2 LEU		22.88		5 73.68	0 1.00 25.16	AAAA AAAA
MOTA	1898	C LEU		23.78		9 73.92		AAAA
MOTA	1899	O LEU		21.76		0 74.39		AAAA
ATOM		N GLU		21.57		.2 75.53		
ATOM		CA GLU		20.33	1 25.35	6 76.33		
MOTA	1 1902	CB GLU		20.04	2 24.53			
ATOM		- -		19.05	3 25.21	.2 78.51		
ATOM		CD GLU		17.93	5 25.55	78.06		_
ATON		OE2 GLU		19.40	0 25.41			
ATON		C GLU		21.44	0 23.46			
ATO				21.95			10 50	
ATO				20.77	23.29			AAAA
ATO				20.59	8 21.9) AAAA
ATO			E 241	19.70	22.0	- ·	23 1 00 24 94	1 AAAA
ATO ATO		CG2 IL	E 241	19.71			39 1.00 28.60	D AAAA
ATO:		CG1 IL	E 241	18.28				4 AAAA
ATO	••		E 241	17.3	JU 22.0		•	•
		•						

							70 041	3 00 35 40	AAAA
MOTA	1915	С	ILE	241	21.957	21.404	72.941	1.00 25.48	
				241	22.244	20.234	73.195	1.00 19.43	AAAA
ATOM	1916	0	ILE					1.00 20.41	AAAA
ATOM	1917	N	VAL	242	22.799	22.235	72.334	_	
				242	24.116	21.782	71.928	1.00 23.17	AAAA
ATOM	1918		VAL				71.107	1.00 26.48	AAAA
ATOM	1919	CB	VAL	242	24.853	22.856			
				242	26.273	22.394	70.807	1.00 18.67	AAAA
ATOM	1920	CG1					69.802	1.00 26.97	AAAA
ATOM	1921	CG2	VAL	242	24.093	23.135			
				242	24.962	21.456	73.154	1.00 24.81	AAAA
MOTA	1922	С	VAL					1.00 22.49	AAAA
ATOM	1923	0	VAL	242	25.566	20.384	73.235	_	
				243	24.989	22.387	74.102	1.00 25.06	AAAA
ATOM	1924	N	LYS				75.311	1.00 32.57	AAAA
ATOM	1925	CA	LYS	243	25.775	22.202			
		СВ	LYS	243	25.599	23.379	76.272	1.00 28.53	AAAA
ATOM	1926					23.183	77.568	1.00 43.21	AAAA
ATOM	1927	CG	LYS	243	26.386				AAAA
	1928	CD	LYS	243	26.022	24.191	78.653	1.00 53.10	
ATOM					26.407	25.607	78.287	1.00 50.30	AAAA
ATOM	1929	CE	LYS	243				1.00 59.15	AAAA
	1930	NZ	LYS	243	26.045	26.548	79.389		
MOTA					25.433	20.917	76.046	1.00 30.38	AAAA
MOTA	1931	С	LYS	243				1.00 35.44	AAAA
MOTA	1932	0	LYS	243	26.321	20.255	76.578		
				244	24.161	20.542	76.076	1.00 28.12	AAAA
ATOM	1933	N	GLU				76.798	1.00 37.54	AAAA
ATOM	1934	CA	GLU	244	23.798	19.320			
			GLU	244	22.288	19.260	77.048	1.00 35.34	AAAA
MOTA	1935	CB					77.816	1.00 55.88	AAAA
ATOM	1936	CG	GLU	244	21.735	20.459			AAAA
	1937	CD	GLU	244	20.281	20.275	78.230	1.00 57.89	
MOTA					19.673	21.246	78.738	1.00 60.60	AAAA
ATOM	1938	OEl	GLU	244					AAAA
	1939	OE2	GLU	244	19.753	19.152	78.062	1.00 57.73	
MOTA					24.231	18.034	76.102	1.00 38.17	AAAA
ATOM	1940	С	GLU	244				1.00 38.46	AAAA
ATOM	1941	0	GLU	244	24.294	16.978	76.727		
				245	24.541	18.124	74.817	1.00 30.29	AAAA
ATOM	1942	N	VAL				74.042	1.00 39.17	AAAA
ATOM	1943	CA	VAL	245	24.933	16.958			
			VAL	245	23.984	16.778	72.833	1.00 46.68	AAAA
MOTA	1944	CB				15.641	71.942	1.00 53.09	AAAA
MOTA	1945	CG1	VAL	245	24.462			. 00 54 10	AAAA
	1946	CG2	VAL	245	22.581	16.488	73.32 7	1.00 54.19	
MOTA					26.364	16.982	73.508	1.00 34.90	AAAA
ATOM	1947	С	VAL	245				1.00 34.73	AAAA
	1948	0	VAL	245	26.915	15.939	73.164		
MOTA					26.980	18.156	73.465	1.00 29.22	AAAA
MOTA	1949	N	PHE	246				1.00 29.17	AAAA
MOTA	1950	CA	PHE	246	28.324	18.256	72.897		
			PHE	246	28.178	18.800	71.464	1:00 30.42	AAAA
MOTA	1951	CB			_	18.588	70.585	1.00 25.62	AAAA
MOTA	1952	CG	PHE	246	29.384				AAAA
		CD1	PHE	246	29.695	17.326	70.097	1.00 28.89	
MOTA	1953				30.167	19.668	70.196	1.00 25.17	AAAA
ATOM	. 1954	CD2	PHE	246	-			1.00 23.43	AAAA
	1955	CE1	PHE	246	30.771	17.138	69.222		
MOTA					31.248	19.495	69.322	1.00 22.40	AAAA
ATOM	1956	CE2	PHE	246				1.00 19.88	AAAA
MOTA	1957	CZ	PHE	246	31.549	18.236	68.835		
				246	29.233	19.176	73.712	1.00 23.38	AAAA
ATOM	1958	C	PHE			20.312	74,002	1.00 29.15	AAAA
ATOM	1959	0	PHE	246	28.867			1.00 25.20	AAAA
	1960	N	GLU	247	30.410	18.682	74.094	1.00 29.73	
ATOM					31.395	19.481	74.841	1.00 28.10	AAAA
MOTA	1961	CA	GLU	. 247				1.00 35.75	AAAA
ATOM	1962	CB	GLU	247	31.912	18.726		1.00 33.73	
					30.972	18.707	77.286	1.00 60.78	AAAA
· ATOM	1963	CG	GLU	247				1.00 70.07.	AAAA
ATOM	1964	CD	GLU	247	29.700 ⁻				AAAA
			GLU	247	28.913	18.220	76.165	1.00 79.95	
MOTA	1965					16.920		1.00 76.80	AAAA
ATOM	1966	OE2	GLU	247	29.481			1 00 30 00	AAAA
		c	GLU	247	32.554	19.741	73.876	1.00 28.90	
ATOM	1967				33.490	18.946		1.00 23.67	AAAA
ATOM	1968	0	GLU	247					AAAA
	1969	N	PRO	248	32.531	20.891		1.00 25.02	
ATOM					31.574	22.003	73.310	1.00 27.23	AAAA
ATOM	1970	CD	PRO	248					AAAA
	1971	CA	PRO	248	33.566	21.249	72.209		
ATOM					33.050	22.575	71.639	1.00 28.11	AAAA
ATOM	1972	CB	PRO	248					AAAA
	1973	CG	PRO	248	31.551				
MOTA				248	34.968		72.770	1.00 23.87	AAAA
ATOM	1974	С	PRO						AAAA
ATOM	1975	0	PRO	248	35.132				AAAA
					35.965	21.013	71.983	1.00 24.34	
ATOM	1976	N	GLU						AAAA
ATOM	1977	CA	GLU	249	37.366				AAAA
		CB	GLU		38.275	20.166	71.679	1.00 22.07	
ATOM	1978			_	38.046	18.726			АААА
MOTA	1979	CG	GLU					1 00 20 15	AAAA
	1980	CD	GLU	249	39.005	17.767	7 71.445	1.00 29.15	
ATOM	エフロリ	CD	220				-	•	•

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				AAAA
ATOM	1981 OE1 GLU	249	20 604 17 004 72 161 1.00 26.19	AAAA
MOTA	1982 OE2 GLU	249	37.602 32.561 71.786 1.00 26.04	AAAA
ATOM	1983 C GLU	249	20 502 23 271 72,262 1.00 26.39	AAAA
MOTA	1984 O GLU	249	26 052 22 921 70.744 1.00 23.83	AAAA
MOTA	1985 N VAL	250	20 151 24 197 70 086 1.00 19.67	AAAA
MOTA	1986 CA VAL	250	39 438 24 178 69.210 1.00 20.88	AAAA
MOTA	1987 CB VAL	250	20 240 23 117 68.128 1.00 18.18	AAAA
MOTA	1988 CG1 VAL	250	39 647 25.530 68.591 1.00 16.71	AAAA
MOTA	1989 CG2 VAL	.250	56 546 34 493 69 207 1.00 20.78	AAAA
MOTA	1990 C VAL	250	35 299 23,556 68.746 1.00 19.60	AAAA
ATOM	1991 O VAL	250 -	25 633 25 757 69.000 1.00 18.73	AAAA
ATOM	1992 N TYR	251	34 497 26.109 68.153 1.00 22.44	AAAA
MOTA	1993 CA TYR	251	33 261 26.437 69.022 1.00 16.57	AAAA
MOTA	1994 CB TYR	251	207 27 856 69 575 1.00 22.36	AAAA
ATOM	1995 CG TYR	251 251	32 654 28.896 68.823 1.00 18.12	AAAA AAAA
ATOM	1996 CD1 TYR	251	32,612 30.185 69.308 1.00 20.40	AAAA
MOTA	1997 CE1 TYR	251	33 715 28.160 70.842 1.00 20.04	AAAA
MOTA	1998 CD2 TYR	251	33.676 29.475 71.349 1.00 16.60	AAAA
MOTA	1999 CE2 TYR	251	33 128 30.473 70.573 1.00 14.00	AAAA
ATOM	2000	251	23 100 31,780 71.011 1.00 21.79	AAAA
MOTA	200-	251	34.811 27.294 67.236 1.00 20.28	AAAA
MOTA	2002	251	35,695 28.107 67.525 1.00 19.91	AAAA
MOTA		252	34.097 27.360 66.109 1.00 17.90	AAAA
MOTA		252	34.216 28.466 65.161 1.00 18.56	AAAA
ATOM		252	34.075 20.002 20.00 22.36	AAAA
ATOM		252	30.020 27.220	AAAA
MOTA	2007 CG LEU 2008 CD1 LEU	252	33.013 23.020 22 20 27 20	AAAA
MOTA	2009 CD2 LEU	252	30.031 47.310 55 053 1 00 15 49	AAAA
MOTA	2010 C LEU	252	32.810 23.033 65 130 100 18 82	AAAA
MOTA	2010 C 2011 O LEU		31.019 20.320	AAAA
MOTA	2012 N LEU		32.730 30.300	AAAA
ATOM	2013 CA LEU		31.490 31.103 35.00 35.49	AAAA
MOTA MOTA	2014 CB LEU	253	31.379 31.907	AAAA
ATOM	2015 CG LEU	253	30.328 33.003 66 173 1 00 20 85	AAAA
ATOM	2016 CD1 LEU	253	28.940 32.433 67.464 3.00.19.05	AAAA
MOTA	2017 CD2 LEU	253	30.536 31.985 63.580 1.00 20.22	AAAA
MOTA	2018 C LEU		31.510 31.503 63.371 1.00 18.14	AAAA
MOTA	2019 O LEU		22 466 21 913 62 765 1.00 16.50	AAAA
ATOM	2020 N GLN		30.400 32.730 61.556 1.00 16.48	AAAA
ATOM	2021 CA GLI		30 095 31 863 60.312 1.00 25.58	AAAA
ATOM	2022 CB GLI		28 647 31.798 59.871 1.00 36.40	AAAA AAAA
ATOM	1 2023 CG GL		20 337 32 728 58.701 1.00 33.18	AAAA
ATOM	2024 CD GL		55 -44 33 407 57 546 1.00 ZI.US	AAAA
ATOM			27.613 33.799 58.992 1.00 22.85	AAAA
MOTA	. 2026 NE2 GL		29 384 33.816 61.832 1.00 16.12	AAAA
МОТА			28.282 33.577 62.364 1.00 13.37	AAAA
1OTA			29.768 35.032 61.468 1.00 14.42	AAAA
OTA			28.988 36.215 61.763 1.00 17.33	AAAA
MOTA		·	29.834 37.070 62.719 1.00 20.00	AAAA
ATO			30.240 30.200 1. 675 1 00 29 36	AAAA
ATO	2000 001 15		31.440	AAAA
ATO		-	29.042 30.22 100 10 32	AAAA
ATO			28.341 37.35 60 561 1 00 21 23	AAAA
ATO		_	20.030 30.222 20 1 00 17 21	AAAA
ATO:			27.027	AAAA
ATO			27.347 57.000 50 000 1 00 17.31	AAAA
ATO	M 2000 CI	y 256	20.413 30.31 100 15 62	AAAA
ATO	n 2000 - C1	Y 256	25.717 50.120 1 00 19 72	AAAA
ATO	11 2020 N	HR 257	20,309	AAAA
ATC ATC	,111	HR 257	25.536 40.536 50 500 500 14.02	AAAA
ATC		HR 257	26.242 42.197 57.206 1.00 17.58	AAAA
ATO	711 = m	HR 257	26.538 42.109 59.392 1.00 19.67	AAAA
ATO	702 TO TO TO	HR 257	27.545 42.65 50 053 1 00 20 58	AAAA
ATC		HR 257	24.199 40.634 38.033 1.00 20.03	•

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3.00V	2047	0	THR	257	23.403	41.545	58.266	1.00 14.59	AAAA
MOTA MOTA	2047	N	ASP	258	23.927	39.639	57.213	1.00 16.56	AAAA
ATOM	2049		ASP	258	22.651	39.646	56.525	1.00 16.39	AAAA AAAA
MOTA	2050	CB	ASP	258	22.604	38.611	55.388 55.811	1.00 18.38 1.00 25.85	AAAA
MOTA	2051	CG	ASP	258	23.037	37.229 36.995	57.022	1.00 23.33	AAAA
- MOTA	2052	OD1		258	23.222 23.187	36.370	54.909	1.00 18.12	AAAA
MOTA	2053	OD2		258 258	21.396	39.563	57.397	1.00 21.25	AAAA
MOTA	2054	C	ASP ASP	258	20.300	39.781	56.897	1.00 22.52	AAAA
MOŢA	2055 2056	O N	PRO	259	21.510	39.172	58.680	1.00 18.17	AAAA
ATOM ATOM	2057	CD	PRO	259	22.614	38.528	59.422	1.00 25.88	AAAA
ATOM	2058	CA	PRO	259	20.281	39.139	59.482	1.00 21.24 1.00 21.18	AAAA AAAA
MOTA	2059	CB	PRO	259	20.710	38.363	60.735 - 60.846	1.00 21.18	AAAA
MOTA	2060	CG	PRO	259	22.174 19.705	38.707 40.534	59.820	1.00 20.88	AAAA
ATOM	2061	С	PRO	259 259	18.572	40.534	60.280	1.00 19.25	-AAAA
ATOM	2062	0	PRO LEU	260	20.473	41.591	59.571	1.00 18.75	AAAA
MOTA	2063 2064	N CA	LEU	260	20.023	42.949	59.875	1.00 22.16	AAAA
MOTA MOTA	2065	CB	LEU	260	21.202	43.935	59.778	1.00 20.35	AAAA
ATOM	2066	CG	LEU	260	22.403	43.640	60.682	1.00 21.82 1.00 18.57	AAAA AAAA
ATOM	2067	CD1	LEU	260	23.604	44.486	60.253 62.123	1.00 18.37	AAAA
ATOM	2068		LEU	260	22.032	43.873 43.469	59.014	1.00 24.16	AAAA
MOTA	2069	C	LEU	260	18.876 18.742	43.409	57.826	1.00 21.69	AAAA
MOTA	2070	0	LEU LEU	260 261	18.049	44.300	59.634	1.00 19.54	AAAA
MOTA	2071 2072	N CA	LEU	261	16.903	44.913	58.965	1.00 17.34	AAAA
MOTA MOTA	2072	CB	LEU	261	16.285	45.967	59.892	1.00 19.96	AAAA
ATOM	2074	CG	LEU	261	15.204	46.879	59.300	1.00 29.99	AAAA AAAA
ATOM	2075	CD1	LEU	261	14.080	46.040	58.732	1.00 33.66 1.00 44.71	AAAA
ATOM	2076	CD2	LEU	261	14.682	47.819	60.376 57.620	1.00 18.11	AAAA
MOTA	2077	C	LEU	261	17.262 16.539	45.550 45.386	56.634	1.00 19.02	AAAA
MOTA	2078	0	LEU	261 262	18.391	46.249	57.566	1.00 22.68	AAAA
MOTA	2079	N CA	GLU GLU	262	18.802	46.921	56.338	1.00 18.46	AAAA
ATOM ATOM	2080 2081	CB	GLU	262	19.875	47.965	56.641	1.00 22.01	AAAA
ATOM	2082	CG	GLU	262	19.365	49.136	57.443	1.00 22.94	AAAA AAAA
ATOM	2083	CD	GLU	262	19.434	48.902	58.927	1.00 23.11 1.00 24.58	AAAA
MOTA	2084		GLU	262	19.668	47.748 49.883	59.357 59.667	1.00 27.06	AAAA
MOTA	2085	OE2		262	19.238 19.281		55.197	1.00 25.65	AAAA
MOTA	2086	C	GLU GLU	262 262	19.446		54.070	1.00 25.49	AAAA
ATOM	2087 2088	И О	ASP	263	19.501		55.467	1.00 22.45	AAAA
MOTA MOTA	2089	CA	ASP	263	19.959		54.418	1.00 15.93	AAAA AAAA
ATOM	2090	CB	ASP	263	20.981		54.988	1.00 18.99 1.00 22.21	AAAA
ATOM	2091	CG	ASP	263	21.706		53.907 54.139	1.00 22.21	AAAA
ATOM	2092		ASP	263	22.876 21.112			1.00 25.02	AAAA
MOTA	2093		ASP	263 263	18.733			1.00 22.32	AAAA
MOTA	2094	C	ASP ASP	263	18.012			1.00 18.50	AAAA
ATOM	2095 2096	0 N	TYR	264	18.500		52.564	1.00 25.21	AAAA
MOTA MOTA	2090	CA	TYR	264	17.339	42.936	51.865	1.00 29.92	AAAA AAAA
MOTA	2098	CB	TYR	264	17.077				AAAA
ATOM	2099	CG	ŢŸŖ	264	17.910				AAAA
MOTA	2100		LTYR	264	17.677				AAAA
MOTA	2101	CE:		264	18.420 18.915				AAAA
ATOM	2102	CD		264	19.670				AAAA
ATOM	2103	CE:	TYR TYR	264 264	19.41			1.00 72.57	AAAA
MOTA	2104 2105	CZ OH	TYR		20.154	42.472	45.975		AAAA
ATOM ATOM	2105	C	TYR		17.445	41.461			AAAA AAAA
MOTA	2107	Ö	TYR	264	16.448				AAAA
ATOM	2108		LEU	265	1.8 . 639	40.891			AAAA
MOTA	2109		LEU	265	18.75				AAAA
ATOM	2110				20.180 20.50		49.531		AAAA
ATOM	2111				20.30				AAAA
ATOM	2112	CD	1 LEU	265	21.04	. 55.55	• • • • • • • • • • • • • • • • • • • •	•	•

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						9.422	38.	990	48.603	1.0	0 46	.72	AAAA	
MOTA		CD2		265		8.209	38.		52.447	1.0	0 22	. 33	AAAA	
MOTA		С	LEU	265		8.279	37.		52.348	1.0	0 23	.48	AAAA	
MOTA		0	LEU	265		7.677	39.		53.508	1.0	0 17	.50	AAAA	
MOTA	 – -	N	SER	266		7.055	38.		54.569	1.0	0 19	.69	AAAA	
MOTA	2117	CA	SER	266		7.033	38.		55.845	1.0	0 20	i.73	AAAA	
MOTA	2118	CB	SER	266		7.696		442	56.684	1.0	0 22	2.81	AAAA	
MOTA	2119	OG	SER	266		5.739		048	54.950	1.0	00 19	75	AAA	
ATOM	2120	С	SER	266		5.572		265	54.840	1.0	00 23	3.66	AAA	
MOTA	2121	0	SER	266		4.799		229	55.402	1.0	00 18	3.40	AAA	
MOTA	2122	N	LYS	267		3.527		759	55.851	1.0	00 20	0.64	AAA	
MOTA	2123	CA	LYS	267		2.397		787	55.513	1.0	00 2	0.96	AAA	
MOTA	2124	CB	LYS	267		2.269		536	54.025	1.0	00 2	5.60	AAA	
ATOM	2125	CG	LYS	267		2.095	38	823	53.259	1.0	00 3	3.47	AAA	
MOTA	2126	CD	LYS	267		11.985	38	540	51.772	1.	00 3	8.49	AAA	
ATOM	2127	CE	LYS	267		11.954		.793	50.991			3.11	AAA	
ATOM	2128	NZ	LYS	267		13.601		.987	57.365	1.	00 2	0.63	AAA	
MOTA	2129	C	LYS	267		12.584		.192	58.017	1.	00 2	5.38	AAA	
MOTA	2130	0	LYS	267 268		14.814		.937	57.915	1.	00 1	8.98	AAA	
MOTA	2131	N	PHE	268		15.034		.182	59.345	1.	00 1	8.50	AAA	
MOTA	2132	CA	PHE	268		16.328	38	.510	59.833	1.	00 2	0.91	AAA	
ATOM	2133	CB	PHE	268		16.252		.006	59.967	1.	00 1	6.96	AAA	
MOTA	2134	CG	PHE	268		17.374		.290	60.415		00 1	.6.61	aaa aaa	
MOTA	2135		PHE	268		15.081		.303	59.682		00 1	8.13	AAA	
MOTA	2136	CD2	PHE	268		17.331		.904	60.581		.00]	4.81	AAA AAA	
ATOM	2137	CEI	PHE	268		15.027	34	.900	59.849		.00]	L7.45	AAA	
MOTA	2138	CE2	PHE	268		16.144		.208	60.296		.00	L6.01	AAA	
MOTA	2139	CZ	PHE	268		15.179		.699	59.510		.00	18.33	AA	
MOTA	2140	C 0	PHE	268		15.733		371	58.644		.00	18.28	AA	
MOTA	2141	Ŋ	ASN	269		14.679		236	60.613		.00	21.04	AA	
ATOM	2142	CA	ASN	269		14.763		2.675	60.859		.00	22.89 20.55	AA	
ATOM	2143 2144	CB	ASN	269		13.365		.298	60.940		.00	26.13	AA	
ATOM	2145	CG	ASN	269		12.551		3.071			.00	29.17	AA.	
ATOM	2145		1 ASN	269		13.060		192			.00	28.26	AA	
MOTA	2147		2 ASN	269		11.268		2.767			00	19.00	AA	
MOTA MOTA	2148	C	ASN	269		15.49		2.967	62.15		00	21.85		AA
ATOM	2149	ō	ASN	269		14.984		3.683			00	17.71		AA
MOTA	2150	N	LEU	270		16.69	_	2.435			00	18.57	AA	AA.
ATOM	2151	CA	LEU	270		17.44		2.642			00	18.95	AA	LAA
MOTA	2152	CB		270		18.44		1.507			.00	20.54	AA	AA
ATOM	2153	CG	LEU	270		17.94	_	0.058 9.174			.00	14.19	_	LAA.
MOTA	2154		1 LEU	270		19.07		9.853			.00	19.05		LAA
MOTA	2155	CD	2 LEU	270		16.67		3.971	•		.00	22.83		AAA
MOTA	2156	С	LEU	270		18.20		4.643		0 1	1.00	18.25		AAA
ATOM	2157	0	LEU	270		18.40		4.318	4 70	9 :	1.00	20.95		AAA
ATOM	2158		SER	271		18.62	A 4	5.51		1 :	1.00	18.28		AAA
ATOM	2159	CP		271		19.41 18.98		6.15		9 :	1.00	18.73		AAA
ATOM		CE		271		19.34		5.32		2	1.00	22.28		AAA
ATOM	2161			271		20.87		5.07		4	1.00	19.98		AAA
MOTA	2162	. C	SER	271		21.12		3.89	·	37	1.00	18.82		AAA
MOTA	2163		SER	271		21.82		5.99		20	1.00	16.17		AAA
ATOM	2164		ASN	272		23.27		5.69	5 65.14	15	1.00	20.70		AAA
ATOM			- '	272		24.17	-	16.90		34	1.00	37.49		AAA
ATOM				272		24.16		17.37	8 63.4	33	1.00	54.53		AAA
ATOM				272		24.70		48.45		99	1.00	45.61		AAA
MOTA			D1 ASN			23.5		46.59	4 62.5	79	1.00	60.55		AAA
ATOM			D2 ASN			23.5		45.34	3 66.5		1.00	18.03		AAA
ATOM						24.5	45	44.62	5 66.8		1.00	18.58		AAA
MOTA	1 217					22.8		45.93			1.00	19.57		AAA
ATON	4 217					23.0		45.69		19 ·	1.00	22.12		AAA
MOTA		-	A VAL			22.3		46.76	55 69.7		1.00	26.91		AAAA
ATO	4 217		B VAL			22.4		46.42	21 71.2		1.00	39.69		AAAA AAAA
ATO		-	G1 VAL			23.0		48.13	15 69.5		1.00	34.73		AAAA
) TOI		_	G2 VAI			22.6		44.29	95 69.3		1.00	22.06		AAAA
ATO!						23.2	49	43.7		17	1.0	16.89		-2-2-2-2
ATO	M 217	8 C	, VAL						-					

	2179	N	ALA	274	21.601	43.747	68.713	1.00 21.79	AAAA
MOTA				274	21.207	42.383	69.035	1.00 21.31	AAAA
MOTA	2180	CA	ALA				68.475	1.00 18.95	AAAA
ATOM	2181	CB	λ LA	274	19.806	42.092			AAAA
ATOM	2182	С	ALA	274	22.259	41.451	68.400	1.00 17.83	
			۸LA	274	22.569	40.389	68.947	1.00 20.38	AAAA
MOTA	2183	0			22:798	41.859	67.245	1.00 16.01	AAAA
MOTA	2184	N	PHE	275				1.00 16.46	AAAA
MOTA	2185	CA	PHE	275	23.828	41.089	66.536		
	2186	СВ	PHE	275	24.220	41.835	65.253	1.00 24.56	AAAA
MOTA				275	25.363	41.222	64.492	1.00 23.01	AAAA
ATOM	2187	CG	PHE		25.209	40.035	63.788	1.00 23.88	AAAA
MOTA	2188	CD1		275			64.443	1.00 22.40	AAAA
MOTA	2189	CD2	PHE	275	26.590	41.877	-		AAAA
	2190		PHE	275	26.266	39.510	63.038	1.00 28.74	
MOTA			PHE	275	27.654	41.365	63.700	1.00 35.03	AAAA `
MOTA	2191				27.489	40.181	62.996	1.00 24.63	AAAA
MOTA	2192	CZ	PHE	275		40.964	67.469	1.00 25.06	AAAA
ATOM	2193	С.	PHE	275	25.030			1 00 19 71	AAAA
ATOM	2194	0	PHE	275	25.619	39.888	67.632	1.00 19.71	
	_	N	LEU	276	25.366	42.080	68.101	1.00 17.49	AAAA
MOTA	2195			276	26.482	42.139	69.030	1.00 24.23	AAAA
ATOM	2196	CA	LEU			43.606	69.416	1.00 20.44	AAAA
MOTA	2197	CB	LEU	276	26.736			1.00 39.65	AAAA
ATOM	2198	CG	LEU	276	28.001	43.967	70.211		
			LEU	276	27.948	45.447	70.589	1.00 29.65	AAAA
MOTA	2199			276	28.102	43.143	71.460	1.00 32.41	AAAA
ATOM	2200	CD2	LEU			41.278	70.262	1.00 18.85	AAAA
ATOM ·	2201	С	LEU	276	26.180			1.00 17.99	AAAA
ATOM	2202	0	LEU	276	27.045	40.529	70.727		
	2203	N	LYS	277	24.968	41.374	70.805	1.00 19.67	AAAA
MOTA				277	24.644	40.552	71.964	1.00 21.33	AAAA
ATOM	2204	CA	LYS		23.265	40.888	72.532	1.00 23.84	AAAA
ATOM	2205	CB.	LYS	277			73.366	1.00 40.87	AAAA
MOTA	2206	CG	LYS	277	23.247	42.126			AAAA
	2207	CD	LYS	277	22.069	42.086	74.325	1.00 54.73	
ATOM			LYS	277	22.172	40.884	75.254	1.00 58.85	AAAA
MOTA	2208	CE			21.051	40.844	76.228	1.00 55.34	AAAA
MOTA	2209	NZ	LYS	277			71.660	1.00 22.12	AAAA
MOTA	2210	С	LYS	277	24.695	39.068		1.00 22.19	AAAA
ATOM	2211	0	LYS	277	25.074	38.264	72.513		
	2212	N	ALA	278	24.311	38.700	70.441	1.00 20.23	AAAA
MOTA				278	24.325	37.291	70.039	1.00 17.06	AAAA
ATOM	2213	CA	АLA		23.798	37.154	68.589	1.00 19.27	AAAA
MOTA	2214	CB	ALA	278			70.127	1.00 16.94	AAAA
ATOM	2215	С	ALA	278	25.760	36.767			AAAA
	2216	0	ALA	278	26.035	35.676	70.648	1.00 14.93	
MOTA			PHE	279	26.679	37.564	69.606	1.00 18.88	AAAA
MOTA	2217	N			28.099	37.231	69.626	1.00 21.01	AAAA
MOTA	2218	CA	PHE	279	_	38.392	68.998	1.00 16.79	AAAA
ATOM	2219	CB	PHE	279	28.880			1.00 20.23	AAAA
ATOM	2220	CG	PHE	279	30.370	38.264	69.120		AAAA
	2221		PHE	279	31.062	37.272	68.423	1.00 21.61	
MOTA			PHE	279	31.088	39.159	69.905	1.00 23.24	AAAA
ATOM	2222				32.461	37.185	68.509	1.00 30.98	AAAA
MOTA	2223		PHE	279			69.995	1.00 24.82	AAAA
ATOM	2224	CE2	PHE	279	32.480	39.081			AAAA
MOTA	2225	CZ	PHE	279	33.169	38.095	69.295	1.00 30.27	
		c	PHE	279	28.576	36.995	71.067	1.00 25.48	AAAA
MOTA	2226			279	29.275	36.016	71.362	1.00 16.30	AAAA
MOTA	2227	0	PHE			37.898	71.962	1.00 22.30	AAAA
ATOM	2228	N	ASN	280	28.194				AAAA
ATOM	2229	CA	λSN	280	28.599	37.777	73.352	1.00 24.43	AAAA
	2230	CB	ASN	280	28.391	39.109	74.080	1.00 27.17	
MOTA				280	29.344	40.183	73.578	1.00 20.88	AAAA
MOTA	2231	CG	ASN		30.503			1.00 22.95	AAAA
MOTA	2232	OD:	1 ASN	280				1.00 27.85	AAAA
MOTA	2233	ND:	2 ASN	280	28.875				AAAA
	2234	C	ASN	280	27.928	36.636		1.00 23.01	
MOTA					28.510		75.016	1.00 21.91	AAAA
MOTA	2235	0	ASN		26.711				AAAA
ATOM	2236	N	ILE						AAAA
ATOM	2237	CA	ILE	281	26.005				AAAA
	2238	СВ			24.566	35.067		1.00 19.31	
MOTA			2 ILE		23.977	33.725	74.135		AAAA
MOTA	2239				23.710			1.00 23.51	AAAA
ATOM	2240		1 ILE						AAAA
ATCM	2241	CD	1 ILE	281	22.279				AAAA
	2242		ILE		26.743				AAAA
ATOM			ILE		26.830	32.973	74.801	1.00 19.69	
ATOM	2243				27.258			1.00 17.72	. AAAA
3 TOM	2244	N	VAL	282	_,,		•		

		•	15010	
			27 976 32.553 72.352 1.00 14.89	AAAA
MOTA	2245 CA VAL	282	2/.9/0 32.333	AAAA
	2246 CB VAL	282	48.339 32.303	አልልአ
MOTA	2247 CG1 VAL	282	29.342 31.440 70.307 1.30	AAAA
MOTA		282	27.105 32.363 69.994 1.00 21 79	AAAA
MOTA		282	20 241 32.433 73.130 1.00 1.1	AAAA
MOTA	2249 C VAL	282	29 568 31.360 73.715 1.00 23.80	AAAA
MOTA	2250 O VAL		00 07E 33 5/40 73.361 1.00 13.14	
MOTA	2251 N ARG	283	74.150 1.00 23.51	AAAA
ATOM	2252 CA ARG	283	34 898 74 023 1.00 20.64	AAAA
ATOM	2253 CB ARG	283	31.331 35 200 72.607 1.00 19.65	AAAA
ATOM	2254 CG ARG	283	72 754 76 645 72 474 1.00 25.70	AAAA
MOTA	2255 CD ARG	283	32.754 30.035 73 215 3 00 36 05	AAAA
MOTA	2256 NE ARG	283	33.970 30.31 == 601 1 00 34 61	AAAA
	2257 CZ ARG	283	34.277 30.44	AAAA
MOTA	2258 NH1 ARG	283	33,440	AAAA
MOTA	2259 NH2 ARG	283	35.419 30.332 35 633 3 00 25 44	AAAA
MOTA	2260 C ARG	283	30.911 33.443 76 070 1 00 23 12	AAAA
ATOM	200-	283	31./54 32.000 10.00 10.00 26 79	AAAA
MOTA	220-	284	29.705 33.032 75 1 00 33 77	AAAA
MOTA	2202	284	29 462 33.338 77.553 1.00 31.77	AAAA.
MOTA	2200	284	28.243 34.115 78.033 1.00 30.50	AAAA
MOTA	2264 CB GLU	284	28.399 35.605 77.95/ 1.00 30.30	AAAA
MOTA	2265 CG GLU		27 137 36.320 78.365 1.00 63.73	
MOTA	2266 CD GLU	284	26 085 36.067 77.738 1.00 68.93	አ ለሉሉ
MOTA	2267 OE1 GLU		27 100 27 133 79 309 1.00 72.01	AAAA
MOTA	2268 OE2 GLU		27.101 21 962 77 733 1.00 31.57	AAAA
ATOM	2269 C GLU		29.101 31.310 78.803 1.00 33.08	AAAA
MOTA	2270 O GLU		22 672 31 221 76 686 1.00 23.3/	AAAA
MOTA	2271 N VAL		20.075 29.807 76.774 1.00 23.25	AAAA
MOTA	2272 CA VAL		28.334 29.407 75.789 1.00 24.77	AAAA
MOTA	2273 CB VAL		27.222 27 913 75 881 1.00 26.98	AAAA
MOTA	2274 CG1 VAI		26.952 27.313 76.107 1.00 24.98	AAAA
ATOM	2275 CG2 VAI	, 285	25.540 30.100 76.479 1.00 31.41	AAAA
MOTA	2276 C VAI		29.30/ 20.342	AAAA
MOTA	2277 O VAI	285	29.833 47.303	AAAA
MOTA	2278 N PH	286	30.310 23.270	AAAA
MOTA	2279 CA PHI		31.403 20.437	AAAA
ATOM	CD DIII	286	31.209 27.309 77 536 1 00 25 71	AAAA
	ann on Dui		30.108 20.510	AAAA
MOTA	2202 CD1 DV		28.9/1 2/.2/2 1 00 24 40	AAAA
MOTA	CD3 DU		30.494 43.032 200 1 00 10 05	AAAA
MOTA	OF1 DU		27.919 20.303	AAAA
MOTA	GEO DI		29.240 24.71	AAAA
ATOM	CT DV		28.036 23.002 3 00 31 53	AAAA
ATOM	C Du		32.034 23.033	AAAA
ATOM	DI		11.847 40.74	AAAA
ATOM	2200	_	32.937 30.272 75.754 1.00 23.70	AAAA
MOTA	2289 N GL		34.237 30.896 75 901 1.00 24.17	AAAA
ATOM	2290 CA GL	_	34.705 31.419 74.562 1.00 27.05	AAAA
ATOM	2291 C GL		33.888 31.670 (73.667 1.00 18.00	AAAA
MOTA	2292 O GL		36.017 31.576 74.414 1.00 23.21	AAAA
MOTA	1 2293 N GI		36 583 32.085 73.170 1.00 24.87	
ATON	4 2294 CA GI		27 262 22 682 73 410 1.00 29.25	AAAA
ATON	1 2295 CB GI		74 22 933 74 291 1.00 42.03	AAAA
ATO	4 2296 CG GI		27 114 35 052 73 745 1.00 43.77	AAAA
ATO	vr 2297 CD GI		25 380 72.544 1.00 36.82	AAAA
ATO	м 2298 OE1 GI	_ປ 288	74.521 1.00 51.56	AAAA
ATO	M 2299 OE2 GI		72.072 1.00 20.85	AAAA
ATO		լը 288	30.093 34.00	AAAA
ATO		ւՄ 288	36.993 23.068 70.843 1.00 26.12	AAAA
ATO:		լդ 289	30.44/ 31.300 400 1 00 20 71	AAAA
ATO:		LY 289	36.317 30.332 60 530 1 00 18 56	AAAA
		LY 289	37.120 31.31. 60 670 1 00 16 59	AAAA
OTA	M 2501 0 C	LY 289	37.009 32.303 300 10 86	AAAA
OTA OTA		AL 290	37.032 30.722 - 100 10 70	AAAA
ATO	2202 03 11	AL 290	3/.3/2 31.322 104 1 00 19 04	AAAA
ATO	M 250.	AL 290	38.150 30.192 63.164 1.00 15.54	AAAA
ATO	PI 2500 02		38.667 30.769 63.853 1.00 15.54	AAAA
· ATC				•
ATC	M 2310 CG2 V			
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		_	VAL	290	-	6.408	32.040	65.427	1.00 20.90	٨٨٨٨
ATOM		-	VAL	290		5.351	31.439	65.193	1.00 19.33	AAAA
MOTA	2312		TYR	291		36.598	33.325	65.125	1.00 15.37	AAAA
MOTA MOTA	2314		TYR	291		35.543	34.140	64.524	1.00 16.79	AAAA
MOTA	2315		TYR	291		35.412	35.438	65.317	1.00 16.42	AAAA
ATOM	2316		TYR	291		35.375	35.181	66.808	1.00 18.60	AAAA
MOTA	2317	CD1		291		36.366	35.688	67.659	1.00 21.77	AAAA AAAA
MOTA	2318		TYR	291		36.368	35.385	69.030	1.00 22.55	AAAA
ATOM	2319		TYR	. 291		34.388	34.374	67.361	1.00 17.34 1.00 20.24	AAAA
MOTA	2320	CE2	TYR	291		34.381	34.066	68.718	1.00 25.85	AAAA
MOTA	2321	CZ	TYR	291		35.367	34.568	69.545 70.885	1.00 25.57	AAAA
ATOM	2322	OH	TYR	291		35.338	34.246 34.446	63.031	1.00 23.37	AAAA
MOTA	2323	С	TYR	291		35.720 36.773	34.440	62.586	1.00 15.21	AAAA
MOTA	2324	0	TYR	291		34.660	34.189	62.273	1.00 14.06	AAAA
MOTA		N	LEU	292		34.674	34.392	60.824	1.00 15.03	AAAA
MOTA	2326	CA	LEU	292 292		34.461	33.046	60.108	1.00 13.66	AAAA
ATOM	2327	CB	LEU	292		35.342	31.856	60.496	1.00 19.04	AAAA
MOTA	2328	CG CD1	LEU	292		34.909	30.615	59.665	1.00 15.17	AAAA
MOTA	2329	CD2		292		36.792	32.190	60.252	1.00 19.18	AAAA
ATOM	2330 2331	CD2	LEU	292		33.564	35.327	60.396	1.00 16.62	AAAA
MOTA	2331	0	LEU	292		32.575	35.488	61.107	1.00 14.76	AAAA
MOTA MOTA	2332	N	GLY	293		33.724	35.932	59.216	1.00 18.62	AAAA
MOTA	2334	CA	GLY	293		32.696	36.816	58.699	1.00 17.10	AAAA AAAA
ATOM	2335	C	GLY	293		31.611	35.954	58.068	1.00 23.44	AAAA
MOTA	2336	Ċ	GLY	293		31.407	34.798	58.459	1.00 23.60 1.00 24.96	AAAA
TOM	2337	N	GLY	294	•	30.915	36.501	57.085	1.00 24.90	AAAA
ATOM	2338	CA	GLY	294		29.871	35.738	56.434 55.474	1.00 28.41	AAAA
ATOM	2339	С	GLY	294		29.132	36.632 37.722	55.167	1.00 25.66	AAAA
MOTA	2340	0	GLY	294		29.605		55.011	1.00 20.33	AAAA
MOTA	2341	N	GLY	295		27.972 27.164		54.085	1.00 20.14	AAAA
MOTA	2342	CA	GLY	295		26.742		54.730	1.00 25.34	AAAA
MOTA	2343	С	GLY	295 295		26.550		55.942	1.00 28.89	AAAA
MOTA	2344	.0	GLY GLY	296		26.614		53.909	1.00 28.52	AAAA
ATOM	2345 2346	N CA	GLY	296		26.230		54.367	1.00 23.21	AAAA
ATOM	2347	C	GLY	296		26.314		53.059	1.00 26.34	AAAA
MOTA MOTA	2348	Õ	GLY	296		27.359		52.414	1.00 26.05	AAAA AAAA
ATOM	2349	N	TYR	297		25.235		52.662	1.00 22.61	AAAA
MOTA	2350	CA	TYR	297		25.228		51.360	1.00 22.58 1.00 23.68	AAAA
ATOM	2351	CB	TYR	297		24.265		50.457	1.00 25.14	AAAA
ATOM	2352	CG	TYR	297		24.502		50.521 51.568	1.00 28.31	AAAA
MOTA	2353	CD1		297		23.981			1.00 24.18	AAAA
ATOM	2354	CE1		297		24.269				AAAA
ATOM	2355	CD2		297		25.307 25.598				AAAA
ATOM	2: 36	CE2		297 297		25.085			1.00 28.68	AAAA
ATOM	257	CZ	TYR TYR	297		25.40			1.00 28.17	AAAA
MOTA	2538	ОН	TYR	297		24.916			1.00 24.98	AAAA
ATOM	2359	C O	TYR	297		24.84		50.237		AAAA
ATOM	2360 2361	N	HIS	298		24.740				AAAA
MOTA MOTA	2362	CA	HIS	298		24.480				AAAA AAAA
ATOM	2363	CB	HIS	298.		23.32	5 46.494			AAAA
ATOM	2364	CG	HIS	298		22.95				AAAA
MOTA	2365		HIS	298		23.49				AAAA
ATOM	2366		HIS	298		22.01				AAAA
ATOM	2367	CE:	1 HIS	298		21.97	8 49.797	52.868		AAAA
ATOM	2368		2 HIS	298		22.86		5 · 53.788 5 · 53.184		AAAA
MOTA	2369	С	HIS	298		25.75				AAAA
ATOM	2370	Э	HIS	298		26.13				AAAA
ATOM	2371	N	PRO	199		26.43 26.07				AAAA
ATOM	2372	CD		299		27.67				AAAA
ATOM	2373	CA		299		28.04			1.00 28.95	AAAA
ATOM	2374	CB		299		26.67			1.00 35.16	AAAA
ATOM	2375		PRO	299 299		27.64				AAAA
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				28.565 48	3.845	55.068	1.00 24.36	AAAA
MOTA	2377 0		299		9.769	54.504	1.00 24.48	AAAA
ATOM	2378 N		300		0.478		1.00 22.94	AAAA AAAA
MOTA	2379 CA		300 300	25.317 5	1.442		1.00 25.24	AAAA
MOTA	2380 CB		300	25.411 5		- - · · · · ·	1.00 30.44	AAAA
MOTA	2381 CG		300	26.366 5			1.00 26.01 1.00 29.66	AAAA
MOTA			300	26.389 5		3 - · · ·	1.00 29.00	AAAA
MOTA		2 TYR	300	24.490 5			1.00 35.88	AAAA
MOTA	2384 CD 2385 CE	2 TYR	300			53.916 52.913	1.00 38.44	AAAA
MOTA	2386 CZ		300			51.990	1.00 33.41	AAAA
MOTA MOTA	2387 OH		300		5.700 9.515	56.921	1.00 22.80	AAAA
ATOM	2388 C	TYR	300		19.513	57:983	1.00 19.14	AAAA
ATOM	2389 0	TYR	300 .		18.568	56.705	1.00 23.08	AAAA
ATOM	2390 N	ALA	301	25.374 4 25.009 4	17.589	57.719	1.00 21.68	AAAA
ATOM	2391 CA		301	23.893	16.687	57.198	1.00 19.52	- AAAA
ATOM	2392 CE		301		46.762	58.098	1.00 23.49	AAAA AAAA
MOTA	2393 C	ALA	301		46.570	59.274	1.00 21.21	AAAA
MOTA	2394 0	ALA	301 302		46.275	57.072	1.00 23.19	AAAA
MOTA	2395 N	LEU	302	28.090	45.463	57.234	1.00 20.66	AAAA.
MOTA	2396 C		302	28.602	45.057	55.844	1.00 23.31 1.00 36.66	AAAA
MOTA	2397 CI		302	29.932	44.335	55.611	1.00 38.41	AAAA
MOTA	2398 C	D1 LEU	302	29.979	43.849	54.170	1.00 28.52	AAAA
ATOM		D2 LEU	302	J #	45.255	55.879	1.00 22.08	AAAA
ATOM	2400 C		302		46.204	58.012 59.020	1.00 20.43	AAAA
MOTA	2402 0		302	29.653	45.713	57.549	1.00 19.58	AAAA
MOTA	2403 N		303	2	47.401 48.173	58.197	1.00 19.77	AAAA
MOTA MOTA	2	A ALA	303	30.567	49.460	57.432	1.00 21.69	AAAA
ATOM		B ALA	303	30.816 30.324	48.485	59.657	1.00 19.19	AAAA
ATOM	2406 C		303	31.216	48.310	60.489	1.00 22.51	AAAA
MOTA	2407 C		303	29.128	48.954	59.993	1.00 20.12	AAAA AAAA
MOTA	2408 N		304 304	28.872	49.296	61.377	1.00 18.04	AAAA
MOTA		A ARG	304	27.566	50.114	61.511		AAAA
MOTA		B ARG	304	27.532	51.481	60.792		AAAA
MOTA		CG ARG	304	26.259	52.259	61.206		AAAA
MOTA	• • • •	NE ARG	304	25.090	51.398	61.116 61.808		AAAA
MOTA		CZ ARG	304	23.965	51.549			AAAA
MOTA	- : .	NH1 ARG	304	23.813	52.550 50.667		44 00	AAAA
MOTA MOTA		NH2 ARG	304	22.991	48.073		1.00 21.00	AAAA
ATOM		C ARG	304	28.794 29.313	48.087		1.00 19.45	AAAA
MOTA		O ARG	304	28.159	47.008		1.00 19.93	AAAA
ATOM		N ALA	305	28.002	45.809	62.610	1.00 18.70	AAAA AAAA
ATOM	2420	CA ALA	305	26.998	44.830	1 61 97	1.00 18.26	
ATOM		CB ALA	305 305	29.311	45.109	62.91	5 1.00 16.46	AAAA
ATOM	2422	C ALA	305	29.564	44.736	6 64.06	1 1.00 9.49	_
ATOM		O ALA N TRP	306	30.152	44.90			
ATOM		N TRP	306	31.423	44.26		45 00	
MOTA		CB TRP	306	32.151	43.86	5 60.90 4 60.33		AAAA
MOTA		CG TRP	306	31.632	42.56			AAAA
4OTA		CD2 TRP	306	31.852	42.05 40.78		9 1.00 19.37	AAAA
IOTA IOTA	- 400	CE2 TRP	306	31.243		-	8 1.00 17.80) AAAA
ATO		CE3 TRP	306	32.507			5 1.00 19.88	AAAA
ATO		CD1 TRP		30.919 30.680			0 1.00 15.9	S AAAA
ATO		NE1 TRP		31.270			37 1.00 24.8	5 AAAA
ATO		CZ2 TRP		32.534		1 56.72	25 1.00 29.65	9 AAAA 4 AAAA
ATO:		CZ3 TRP		31.917		13 56.69	1.00 17.0	
ATO	M 2435	CH2 TRE		32.289	45.18	63.03	18 1.00 20.2	•
OTA	M 2436	C TRE		33.159	44.72	26 63.75		•
ATO	M 1437	O TRI		.32.06	46.49	91 62.9		-
ATO		N THE	•	32.843	3 47.4	12 63.7	^	
ATO	~	CA THI		32.57	9 48.8	85 63.3		<u> </u>
ATC		OG1 TH		33.21		32 62.0 57 64.3		6 AAAA
ATC		CG2 TH		33.12	6 49.8	J/ 04.3		•
ATO			• •					

> TOY	2443	c '	THR	307	32.493	47.146		1.00 17.47	AAAA
MOTA	2444		THR	307	33.377	47.142		1.00 18.94	AAAA
ATOM	2445	_	LEU	308	31.216	46.901		1.00 19.97	AAAA
ATOM ATOM	2446		LEU	308	30.834	46.587		1.00 22.54	AAAA AAAA
MOTA	2447		LEU	308	29.318	46.365	• • • •	1.00 21.13 1.00 22.82	AAAA
ATOM	2448		LEU	308	28.415	47.579	• • • • •	1.00 22.82	AAAA
ATOM	2449	CD1	LEU	308	26.937	47.219	• •	1.00 29.09	AAAA
MOTA	2450	CD2	LEU	308	28.870	48.710		1.00 22.98	AAAA
ATOM	2451		LEU	308	31.578	45.331 45.250		1.00 22.27	AAAA
ATOM	2452		LEU	308	32.056	44.342		1.00 22.54	AAAA
MOTA	2453		ILE	309	31.677 32.377	43.114	66.801	1.00 17.09	AAAA
MOTA	2454	CA	ILE	309	32.377	42.073	65.664	1.00 18.12	AAAA
MOTA	2455	CB	ILE	309 309	33.170	40.870	66.033	1.00 24.16	AAAA
MOTA	2456	CG2		309	30.871	41.655	65.399	1.00 18.26	AAAA
ATOM	2457		ILE	309	30.205	40.989	66.586	1.00 26.57	AAAA
ATOM	2458	CD1	ILE	309	33.849	43.410	67.067	1.00 20.84	AAAA
ATOM	2459 2460	o	ILE	309	34.426	42.905	68.031	1.00 25.20	AAAA AAAA
MOTA	2461	N	TRP	310	34.466	44.223	66.214	1.00 16.86	AAAA
MOTA MOTA	2462	CA	TRP	310	35.888	44.517	66.411	1.00 17.86 1.00 14.83	AAAA
ATOM	2463	CB	TRP	310	36.439	45.319	65.235	1.00 14.83	AAAA
MOTA	2464	CG	TRP	310	37.879	45.648	65.397 65.560	1.00 18.62	AAAA
ATOM	2465	CD2	TRP	310	38.967	44.718	65.799	1.00 25.60	AAAA
ATOM	2466	CE2	TRP	310	40.131	45.478 43.319	65.529	1.00 24.06	AAAA
MOTA	2467	CE3	TRP	310	39.069 38.418	46.895	65.533	1.00 19.82	AAAA
MOTA	2468	CD1	TRP	310	39.768	46.801	65.777	1.00 25.84	AAAA
MOTA	2469		TRP	310	41.383	44.887	66.006	1.00 26.14	AAAA
MOTA	2470	CZ2		310 310	40.308	42.730	65.735	1.00 24.89	AAAA
MOTA	2471	CZ3	TRP TRP	310	41.452	43.515	65.971	1.00 24.96	AAAA
MOTA	2472 2473	CHZ	TRP	310	36.112	45.263	6 7 .733	1.00 20.86	AAAA
ATOM	2474	0	TRP	310	37.050		68.478	1.00 21.38	AAAA AAAA
MOTA	2475	N	CYS	311	35.242	46.226	68.030	1.00 24.22 1.00 27.66	AAAA
ATOM ATOM	2476	CA	CYS	311	35.349		69.280	1.00 27.88	AAAA
MOTA	2477	CB	CYS	311	34.297		69.343	1.00 23.37	AAAA
ATOM	2478	SG	CYS	311	34.618		68.253 70.490	1.00 27.22	AAAA
ATOM	2479	С	CYS	311	35.224		70.490	1.00 25.47	AAAA
ATOM	2480	0	CYS	311	35.986		70.457	1.00 17.03	AAAA
ATOM	2481	N	GLU	312	34.284 34.120		71.569	1.00 22.44	AAAA
MOTA	2482	CA	GLU	312	33.011		71.280	1.00 20.81	AAAA
MOTA	2483	CB	GLU	312 312	31.856		72.258	1.00 43.65	AAAA
MOTA	2484	CG	GLU	312	32.265		73.717	1.00 29.63	AAAA
MOTA	2485	CD OF1	GLU	312	33.022		74.119	1.00 38.85	AAAA
ATOM	2486 2487		GLU	312	31.804		74.473	1.00 53.22	AAAA AAAA
ATOM	2488	C	GLI	312	35.395	43.309		1.00 27.47	AAAA
MOTA MOTÁ	2489	ō	GLi.	312	35.899			1.00 22.33 1.00 23.82	AAAA
ATOM	2490	N	LEU	313	35.899				AAAA
MOTA	2491	CA	LEU	313	37.10			1.00 27.82	AAAA
ATOM	2492	СВ	LEU	313	37.380			1.00 33.55	AAAA
ATOM	2493	CG	LEU	313	36.40				AAAA
ATOM	2494	CDI	LEU	313	36.83	9 39.738 9 38.981			AAAA
ATOM	2495		2 LEU	313	36.37				AAAA
ATOM	2496		LEU	. 313	38.34 39.11			1.00 21.48	AAAA
ATOM	2497		LEU	313	38.49			1.00 19.41	AAAA
ATOM	2498		SER	314	39.62			1.00 28.26	AAAA
MOTA	2499		SER	314 314	39.62		69.663	1.00 22.55	AAAA
ATOM	2500			314	40.73	2 46.696	69.759	1.00 61.92	AAAA
ATOM	2501		SER	314	39.61		72.144	1.00 30.18	AAAA
MOTA			SER	314	40.63		9 72.590		AAAA AAAA
ATOM			GLY	315	38.47	7 45.40			AAAA
ATOM				315	38.39	3 46.00			AAAA
MOTA			GLY		38.32				AAAA
MOTA MOTA		_	GLY	_	38.81				AAAA
ATOM			ARG		37.73	9 48.09	0 73.065	, 1.00 51.55	•
ATON				٠.					

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			_	20 621 4	9.536	73.042 1	.00 39.10	AAAA
MOTA	2509 C	A ARG	316	37.631 4 38.347 5		71.830 1	00 45.15	AAAA
ATOM	2510 C	B ARG	316			70.501 1	00 46.02	AAAA
MOTA	2511 C	G ARG	316	J / S /		69.449	1.00 44.83	AAAA
ATOM	2512 C	D ARG	316			69.357	1.00 37.91	AAAA
ATOM	2513 N	E ARG	316	33,000		68.674	1.00 27.39	AAAA
MOTA	2514 C		316			68.034	1.00 50.24	AAAA
MOTA	2515 N	H1 ARG	316	40.854 5 42.054 4	19.493	68.572	1.00 34.51	AAAA
MOTA	2516 N	H2 ARG	316	36.179		73.058	1.00 35.43	AAAA
ATOM	2517 C		316			72.596	1.00 30.71	AAAA
ATOM	2518 O		316		51.162	73.612	1.00 34.06	AAAA
MOTA	2519 N		317		51.663	73.671	1.00 37.96	AAAA
MOTA		A GLU	317	34.481	52.914	74.552	1.00 43.60	AAAA
MOTA		B GLU	317 317	33.961	52.630	75.960	1.00 60.36	AAAA
MOTA		G GLU	317	34.768	51.575	76.701	1.00 70.70	AAAA AAAA
MOTA		D GLU DE1 GLU	317	34.375	51.217		1.00 76.71	AAAA
MOTA			317	35,793	51.104	76.162	1.00 78.36	AAAA
MOTA			317	34.068	51.958	72.280	1.00 35.65	AAAA
MOTA		C GLU	317	34.843	52.322	71.390	1.00 32.91	AAAA
MOTA		N VAL	318	32.767	51.772	72.094	1.00 30.52 1.00 37.04	AAAA
MOTA		CA VAL	318	32.138	52.012	70.808	1.00 37.04	AAAA
ATOM		CB VAL	318	30.877	51.138	70.638	1.00 40.43	AAAA
MOTA		CG1 VAL	318	30.278	51.366	69.268	1.00 40.45	AAAA
MOTA		CG2 VAL	318	31.222	49.674	70.846 70.737	1.00 28.96	AAAA
MOTA MOTA		C VAL	318	31.719	53.465	71.556	1.00 33.56	AAAA
ATOM		O VAL	318	30.930	53.915 54.229	69.773	1.00 29.20	AAAA
MOTA		N PRO	319	32.258	53.924	68.726	1.00 31.62	AAAA
MOTA		CD PRO	319	33.243 31.858	55.637	69.684	1.00 28.99	AAAA
ATOM	2537	CA PRO	319	32.709	56.154	68.528	1.00 32.17	AAAA
ATOM	2538	CB PRO	319	32.709	54.926	67.664	1.00 41.36	AAAA
ATOM	2539	CG PRO	319	30.365	55.680	69.377	1.00 36.95	AAAA
MOTA	2540	C PRO	319 319	29.847	54.795	68.695	1.00 32.86	AAAA
MOTA	2541	O PRO	319	29.646	56.683	69.855	1.00 34.61	AAAA AAAA
MOTA	2542	N GLU	320	28.230	56.657	69.544	1.00 35.13	AAAA
MOTA	2543	CA GLU	320	27.419	57.416	70.595	1.00 52.97	AAAA
MOTA	2544	CB GLU	320	27.751	58.875	70.738	1.00 56.06	AAAA
MOTA	2545 2546	CD GLU	320	26.822	59.558		1.00 65.58 1.00 64.27	AAAA
ATOM	2547	OE1 GLU	320	25.604	59.619		1.00 04.27	AAAA
MOTA	2548	OE2 GLU	320	27.306	60.022		1.00 35.13	AAAA
MOTA MOTA	2549	C GLU	320	27.943	57.192		1.00 37.43	AAAA
ATOM	2550	O GLU	320	26.916	56.879 57.953		1.00 28.22	AAAA
MOTA	2551	N LYS	321	28.880	58.555		1.00 36.58	AAAA
ATOM	2552	CA LYS	321	28.700 28.666	60.071		1.00 44.87	AAAA
ATOM	2553	CB LYS	321	29.987	60.606		1.00 55.73	. `AAA
ATOM		CG LYS	321	30.305	60.020	68.410	1.00 57.27	AAA
ATOM		CD LYS	321	31.733	60.310		1.00 54.59	AAA
MOTA	2556	CE LYS		32.024	61.774	4 68.848	1.00 67.47	AAAA AAAA
MOTA	2557	NZ LYS		29.823	58.211	1 65.315		AAAA
ATOM		C LYS		30.912	57.818	8 65.731		AAAA
ATOM		O LYS		29.549	58.35	4 64.019		AAA.
ATOM				30.575	58.13			AAA
ATOM		CA LEU		29.966	57.67			AAAZ
ATOM		CG LEU		29.240	56.33			LAAA
MOTA		CD1 LEU		29.008	55.97			AAAJ
ATOM		CD2 LEU		30.072	55.26			AAAJ
ATON		C LE		31.228	59.50			نهمم
MOTA MOTA		O LET	j 322	30.544	60.51			i A AA
IOTA IOTA		N ASI	1 323	32.533				AAA
ATO		CA ASI	1 323	33.208	60.82 60.73			AAA
ATO		CB ASI		34.701			0 1.00 50.51	AAA
ATO		CG AS		35.484 35.21			9 1.00 51.23	AAA
ATO		OD1 AS	N 323	36.45			8 1.00 60.23	AAA
ATO	M 2573			33.02				AAA
ATO		C AS	N 323	55.50		•		
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MOTA	2575	0	ASN	323	32.4	29	60.395		0.075	1.00	34.06	AAAA
MOTA	2576	N	ASN	324	33.5		62.317		0.390		23.73	AAAA AAAA
ATOM	2577	CA	ASN	324	33.3		62.720		8.995	1.00	31.06	AAAA
MOTA	2578	CB	ASN	324	33.8		64.155		8.784	1.00	36.07 45.77	AAAA
ATOM	2579	CG	ASN	324	32.9		65.163		9.450		39.55	AAAA
ATOM	2580	OD1	ASN	324	31.7	-	65 ⁻ . 189		9.206 60.291	1 00	39.12	AAAA
MOTA	2581	ND2		324	33.5		66.008 61.810		57.971	1.00	24.87	AAAA
ATOM	2582	С	ASN	324	34.0	-	61.483	_	6.941	1.00	31.91	AAAA
ATOM	2583	0	ASN	324	33.4 35.2		61.405		8.250	1.00	27.73	AAAA
MOTA	2584	N	LYS	325	35.9		60.538		7.333		29.55	AAAA
MOTA	2585	CA	LYS	325 · 325	37.3		60.182		7.929	1.00	37.43	AAAA
MOTA	2586	CB	LYS LYS	325	38.2		59.396		7.004		44.84	AAAA
ATOM	2587 2588	CD CD	LYS	325	39.0		59.435		57.502		50.89	AAAA
MOTA	2589	CE	LYS	325	40.	191	60.873		57.561	1.00	54.82	AAAA
MOTA MOTA	2590	NZ	LYS	325	41.	521	60.980		57.969		65.70	аааа аааа
ATOM	2591	C	LYS	325	35.		59.279	9 5	57.078		27.99 31.80	AAAA
ATOM	2592	0	LYS ·	325	35.		58.836	5 ;	55.938	1.00	26.07	AAAA
ATOM	2593	N	ALA	326	34.		58.721		58.142 58.030	1.00	24.38	AAAA
ATOM	2594	CA	ALA	326	33.		57.506 56.982	-	59.428	1 00	27.34	AAAA
MOTA	2595	CB	ALA	326	33.		57.709		57.231		25.78	AAAA
MOTA	2596	С	ALA	326	32. 32.		56.89		56.369	1.00	27.37	AAAA
MOTA	2597	0	ALA	326	32.		58.79		57.496	1.00	27.31	AAAA
MOTA	2598	N	LYS	327 327	30.		59.02	-	56.758	1.00	28.56	AAAA
MOTA	2599	CA	LYS LYS	327	29.		60.25		57.313		28.87	AAAA
ATOM	2600	CB CG	LYS	327	29.		60.20	9		. 1.00	36.72	AAAA
ATOM	2601 2602	CD	LYS	327	28.		61.40		59.255	1.00	40.34	AAAA
MOTA MOTA	2602	CE	LYS	327	28.	645	61.59	_	60.769	1.00	38.91	AAAA AAAA
ATOM	2604	NZ	LYS	327		163	60.42	-	61.556	1.00	47.67 29.15	AAAA
MOTA	2605	С	LYS	327		792	59.24	-	55.269	1.00	0 27.76	AAAA
ATOM	2606	0	LYS	327		097	58.71	-	54.393 54.972	1.0	0 31.59	AAAA
ATOM	2607	N	GLU	328		829	60.01	-	53.581	1.0	0 28.93	AAAA
MOTA	2608	CA	GLU	328		167 257	61.33		53.515	1.0	0 32.30	AAAA
MOTA	2609	СВ	GLU	328		745	62.65		54.067	1.0	0 47.50	AAAA
MOTA	2610	CG	GLU	328 328		764	63.77		54.032	1.0	0 46.67	AAAA
ATOM	2611	CD	GLU	328		325	64.03		52.951	1.0	0 56.88	AAAA
MOTA	2612 2613		GLU	328		984	64.40		55.087	1.0	0 42.24	AAAA
MOTA	.2614	C	GLU	328	32.	.575	58.97		52.871		0 30.46	AAAA AAAA
MOTA MOTA	2615	ō	GLU	328		.226	58.75		51.704	1.0		AAAA
MOTA	2616	N	LEU	329	33	.292	58.11		53.584	1.0	0 24.93 0 24.80	
ATOM	2617	CA	LEU	329		701	56.82		53.017 54.053		0 25.70	
ATOM	2618	CB	LEU	329	34	.478	56.00		53.703		0 19.71	
ATOM	2619	CG	LEU	329		.730	54.52 54.43	_	52.430		0 25.25	AAAA
MOTA	2620		1 LEU	329		.569 .412	53.83		54.863	1.0	0 24.73	AAAA
ATOM	2621		2 LEU	329		.443	56.0		52.603	1.0	0 23.50	AAAA
ATOM	2622	C	LEU	329 3 2 9		.310	55.65		51.453	1.0	0 25.60	AAAA
MOTA	2623	0	LEU	330		.516	55.88	81	53.539	. 1.0	0 23.02	AAAA
MOTA	2624	N CA		330		.289	55.14		53.242	_	0 23.85	AAAA
MOTA	2625 2626	CB		330		.414	55.03		54.484	1.0	0 21.74	AAAA AAAA
MOTA MOTA	2627	CG		330	30	.039	54.2	52	55.642		0 25.29	
MOTA	2628		1 LEU	330		.984	54.0	53	56.724		00 30.59 00 22.44	
MOTA	2629		2 LEU	330	-	.538	52.9		55.168		00 26.94	
ATCM	2630		LEU	330		.491	55.7		52.113 51.252		00 26.6	-
ATOM	2631	0	LEU	330		.968	55.0 57.0		52.111	1 1	00 30.83	AAAA
ATCM	2632		LYS	331	29	.404	57.7		51.066		00 29.5	
MOTA	2633	CA		331		.667	59.2		51.407		00 29.6	7 AAAA
MOTA	2634			331		.537 .814		67	52.714	1 1.	00 36.0	e aaaa
ATOM	2635			331		.688		55	52.990	1.	00 42.7	AAAA <u>2</u>
MOTA	2636					.828			51.939	1.	00 53.9	g Aaaa
ATOM					26	.634	63.1	85	52.23	1 1.	00 67.5	7 AAAA
ATOM			LYS			.315	57.6	28	49.692		00 30.C	7 ሕጹጹጹ n ሕጹጹጹ
MOTA			LYS			.634		59	48.67	2 1.	00 36.2	U AAAA
ATOM	2040	_		•								

		455	332	30.608 5	7.305 4	19.657 1	.00 30.08	AAAA
MOTA	2641 N		332		7.153 4	• • • • •	00 33.35	AAAA
ATOM	2642 C		332	32.834 5			.00 40.36	aaaa aaaa
MOTA	2643 C		332	33.396 5			1.00 34.04	AAAA
MOTA			332	31.061 5			1.00 37.72	٨٨٨٨
MOTA	2645 C		332	31.354 5			1.00 30.78	AAAA
MOTA	2646 O	-	333	30.521 5			1.00 30.61 1.00 37.59	AAAA
ATOM		A ILE	333				1.00 37.59	AAAA
MOTA		B ILE ·				49.022	1.00 33.39	AAAA
ATOM		G2_ILE	333			-	1.00 37.05	AAAA
ATOM	2651 C	G1 ILE	333				1.00 46.83	AAAA
MOTA MOTA	2652	D1 ILE	333	• • •		51.282 46.998	1.00 43.41	AAAA
ATOM	2653		333 .			47.479	1.00 46.24	AAAA
MOTA	2654		333			45.696	1.00 47.97	AAAA
ATOM		1 ASP	334		53.423 53.447	44.847	1.00 53.47	AAAA -
ATOM		A ASP	334		53.535	43.358.	1.00 61.52	AAAA
ATOM		B ASP	334		52.406	42.897	1.00 64.75	AAAA
ATOM		G ASP	334		52.248	41.566	1.00 66.93	AAAA
ATOM		DD1 ASP	334		51.691	43.758	1.00 65.93	AAAA
MOTA		DD2 ASP	334		52.144	45.161	1.00 51.83	AAAA
ATOM		ASP	334 334	27.626	51.067	44.699	1.00 46.80	AAAA
MOTA		O ASP	335	26.215	52.249	45.986	1.00 54.96	aaaa aaaa
MOTA		N PHE CA PHE	335		51.080	46.392	1.00 50.60	AAAA
MOTA			335	25.413	51.003	47.920	1.00 39.55	AAAA
MOTA		CB PHE CG PHE	335	24.380	50.054	48.440	1.00 37.98	AAA
ATOM		CD1 PHE	335	23.0	48.715	48.054	1.00 46.72 1.00 34.23	AAA
ATOM	2000	CD2 PHE	335	23.362	50.506	49.262	1.00 49.80	AAA
	2669	CE1 PHE	335	23.389	47.842	48.478 49.689	1.00 48.51	AAAA
MOTA MOTA		CE2 PHE	335	22.361	49.644	49.009	1.00 40.44	AAAA
MOTA	2671	CZ PHE	335	22.373	48.309 51.000	45.839	1.00 54.52	AAAA
ATOM	2672	C PHE	335	24.033	49.939	45.379	1.00 59.24	AAAA
MOTA	2673	O PHE	335	23.603 23.302	52.108	45.888	1.00 50.94	AAAA
MOTA	2674	N GLU	336	23.302	52.119	45.406	1.00 57.05	AAAA
MOTA	2675	CA GLU	336	21.853	51.751	43.924	1.00 60.27	AAAA
MOTA	2676	CB GLU	336	20.430	51.627	43.422	1.00 68.55	AAAA
MOTA	2677	CG GLU	336 336	20.352	51.126	42.001	1.00 80.03	AAAA AAAA
MOTA	2678	CD GLU OE1 GLU	336	20.860	50.013	41.735	1.00 84.64	AAAA
ATOM	2679	OE2 GLU	336	19.777	51.841	41.153	1.00 80.68 1.00 55.73	AAAA
ATÓM	2680 2681	C GLU	336	21.065	51.135		1.00 51.33	AAAA
ATOM	2682	O GLU	336	21.219	49.917		1.00 31.33	AAAA
MOTA MOTA	2683	N GLU	337	20.151	51.679		1.00 48.19	AAAA
ATOM	2684	CA GLU	337	19.267	50.880		1.00 47.73	AAAA
ATOM	2685	CB GLU	337	18.510	51.822	007		AAAA
MOTA	2686	CG GLU	337	18.084	51.205 50.720		1.00 50.17	AAAA
MOTA		CD GLU	337	19.269 20.111	51.548		1.00 36.03	AAAA
ATOM		OE1 GLU	337	19.358	49.494		1.00 51.25	AAAA
ATOM	2689	OE2 GLU	337	18.294	50.083		1.00 49.13	AAAA
ATOM		C GLU	337 337	17.816	50.588	3 45.916		4444 4444
MOTA	2691	O GLU	338	18.015	48.837	7 47.313		AAAA
ATOM		N PHE		17.092	48.000			AAAA
MOTA		CA PHE		16.870	46.658			AAA
MOTA		CB PHE		15.883	45.77		3 1.00 57.22 3 1.00 60.01	AAAJ
ATOM		CD1 PHE		16.115				AAAJ
ATOM		CD2 PHE		14.699	45.39			AAA
ATOM		CE1 PHE		15.185	44.59			AAAI
MOTA MOTA		CE2 PHE		13.758				AAAi
ATOM		CZ PHE	338	14.002			15 15	aaai
ATOM		C PHE	338	15.755			3 1.00 51.11	AAA
ATON		O PHE		15.274 15.154			1 1.00 40.38	AAA
ATO!	4 2703	N ASI		13.890	49.82	0 47.48	8 1.00 49.97	AAA
ATO	4. 2704	CA ASI		13.030		1 48.88	6 1.00 53.23	AAA AAA
OTA	yı 2705	CB ASE		12.000			8 1.00 57.40	AAA
ATO	M 2706	CG ASI		52		-	•	_

Figure	1	6-42
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MOTA	2707	OD1	ASP	339	12.039	51.858	48.616	1.00 53.79	AAAA
ATOM	2708		ASP	339	10.963	50.118	49.401	1.00 51.15	AAAA
MOTA	2709	C	ASP	339	14.215	51.248	47.076	1.00 55.06	AAAA
				339	14.994	51.922	47.748	1.00 56.47	AAAA
MOTA	2710	0	ASP				45.978	1.00 58.46	AAAA
MOTA	2711	N	ASP	340	13.623	51.708			
MOTA	2712	CA	ASP	340	13.874	53.059	45.484	1.00 67.72	AAAA
MOTA	2713	CB	ASP	340	12.683	53.559	44.664	1.00 71.52	AAAA
MOTA	2714	CG	ASP	340	12.611	52.913	43.295	1.00 79.72	AAAA
MOTA	2715	OD1	ASP	340	12.528	51.667	43.224	1.00 86.74	AAAA
ATOM	2716		ASP	340	12.640	53.655	42.288	1.00 83.40	AAAA
ATOM	2717	c	ASP	340	14.209	54.072	46.572	1.00 69.65	AAAA
MOTA	2718	ō	ASP	340	15.204	54.794	46.463	1.00 70.13	AAAA
				341	13.392	54.130	47.620	1.00 67.11	AAAA
MOTA	2719	N	GLU			55.077	48.689	1.00 67.87	AAAA
ATOM	2720	CA	GLU	341					
MOTA	2721	CB	GLU	341	13.195	56.478	48.278	1.00 74.87	AAAA
ATOM	2722	CG	GLU	341	13.502	57.576	49.298	1.00 82.72	AAAA
MOTA	2723	CD	GLU	341	13.162	58.974	48.790	1.00 90.80	AAAA
ATOM	2724	OE1	GLU	341	11.988	59.215	48.431	1.00 90.38	AAAA
MOTA	2725	OE2	GLU	341	14.072	59.835	48.752	1.00 93.36	AAAA
ATOM	2726	С	GLU	341	13.101	54.719	50.058	1.00 60.22	AAAA
ATOM	2727	0	GLU	341	11.929	54.955	50.347	1.00 58.81	AAAA
ATOM	2728	N	VAL	342	13.956	54.144	50.897	1.00 57.28	AAAA
	2729	CA	VAL	342	13.594	53.781	52.262	1.00 52.09	AAAA
ATOM				342	14.195	52.419	52.669	1.00 53.17	AAAA
MOTA	2730	CB	VAL		13.730	52.042	54.070	1.00 46.16	AAAA
MOTA	2731		VAL	342				1.00 40.10	AAAA
ATOM	2732		VAL	342	13.815	51.356	51.663		
ATOM	2733	С	VAL	342	14.263	54.843	53.124	1.00 53.31	AAAA
ATOM	2734	0	VAL	342	13.763	55.230	54.185	1.00 57.79	AAAA
MOTA	2735	N	ASP	343	15.398	55.306	52.610	1.00 46.24	AAAA
MOTA	2736	CA	ASP	343	16.268	56.289	53.243	1.00 42.60	AAAA
ATOM	2737	CB	ASP	343	15.521	57.510	53.781	1.00 43.88	AAAA
ATOM	2738	CG	ASP	343	16.480	58.581	54.290	1.00 46.82	AAAA
ATOM	2739		ASP	343	16.028	59.581	54.887	1.00 46.16	AAAA
ATOM	2740		ASP	343	17.700	58.414	54.075	1.00 33.01	AAAA
	2741		ASP	343	17.012	55.636	54.395	1.00 35.45	AAAA
ATOM		C			16.487	55.480	55.502	1.00 29.39	AAAA
MOTA	2742	0	ASP	343				1.00 30.51	AAAA
ATOM	2743	N	ARG	344	18.247	55.249	54.124		
ATOM	2744	CA	ARG	344	19.059	54.613	55.140	1.00 29.43	AAAA
ATOM	2745	CB	ARG	344	19.736	53.377	54.561	1.00 30.10	AAAA
MOTA	2746	CG	ARG	344	18.803	52.258	54.180	1.00 33.95	AAAA
MOTA	2747	CD	ARG	344	17.981	51.770	55.365	1.00 20.92	AAAA
MOTA	2748	NE	ARG	344	17.120	50.673	54.936	1.00 29.72	AAAA
ATOM	2749	CZ	ARG	344	16.110	50.176	55.639	1.00 29.13	AAAA
ATOM	2750	NH1	ARG	344	15.805	50.668	56.835	1.00 29.63	AAAA
ATOM	2751		ARG	344	15.379	49.198	55.120	1.00 27.19	AAAA:
ATOM	2752	C	ARG	344	20.116	55.769	55.660	1.00 34.31	AAAA
	2753	ō	ARG	344	21.005	5557	56.391	1.00 29.09	AAAA
ATOM			SER	345	20.011	56. 45	55.294	1.00 28.34	AAAA
ATOM	2754	N			20.999	57.839	55.715	1.00 30.95	AAAA
MOTA	2755	CA	SER	345				1.00 30.93	AAAA
MOTA	2756	CB	SER	345	20.669	59.199	55.109		
MOTA	2757	OG	SER	345	19.429	59.648	55.610	1.00 29.38	AAA A
ATOM	2758	.C	SER	345 .	21.137	57.988	57.230	1.00 30.92	AAAA
ATOM	2759	0	SER	345	22.155	58.488	57.718	1.00 31.15	AAA 3
MOTA	2760	N	TYR	346	20.116	57.576	57.975	1.00 25.64	LAAA
ATOM	2761	CA	TYR	346	20.158	57.659	59.433	1.00 26.81	LAAA
ATOM	2762	СВ	TYR	346	18.823	57.189	60.006	1.00 34.41	LAAA
	2763	CG		346	18.529	55.723	59.716	1.00 27.35	LAAA
ATOM				346	19.003	54.708	60.556	1.00 24.87	AAA
ATOM	2764		TYR				60.278	1.00 28.05	AAA
MOTA	2765		TYR	346	18.744	53.352		1.00 28.03	AAA
ATOM	2766	CD2		346	17.795	55.358	58.588		
ATOM	2767	CE2	TYR	346	17.533		- 58.297	1.00 26.59	AAA
ATOM	2768	CZ	TYR	346	.18.008	53.015	59.145	1.00 33.75	AAA
ATOM	2769	OH	TYR	346	17.737	51.691	58.855	1.00 26.06	AAA
ATCM	2770	С	TYR	346	21.277	56.766	59.977	1.00 25.57	AAA
ATOM	2771	õ	TYR	346	21.769	56.970	61.085	1.00 28.07	AAA
ATCM	2772	N	MET	347	21.666	55.761	59.198	1.00 29.08	AAA
71011					- -		_		

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ATOM	2773	CA	MET	347	22	.720	54.837	59.622	1.00	24.19	AAAA
MOTA	2774		MET	347		.844	53.678	58.628		24.87	AAAA
ATOM	2775		MET	347	21	. 609	52.806	58.543		23.66	AAAA
	2776		MET	347		.780	51.503	57.267		27.02	AAAA
MOTA	2777		MET	347	22	.115	52.375	55.896		37.69	AAAA
ATOM	2778		MET	347		.054	55.540	59.737		29.45	AAAA
ATOM	_		MET	347		.937	55.092	60.479		28.08	AAAA
ATOM	2779 2780	N	LEU	348		.188	56.650	59.007		23.71	AAAA
ATOM			LEU	348		.418	57.446	58.998		34.11	AAAA
ATOM	2781	CA	LEU	348		.463	58.351	57.757		25.37	AAAA
MOTA	2782	CB	LEU	348		.320	57.785	56.344	1.00	30.38	AAAA
MOTA	2783	CG CD1		348		.307	58.944	55.340		27.44	AAAA
MOTA	2784		LEU	348		.459	56.814	56.041	1.00	36.44	AAAA
MOTA	2785		LEU	348		.507	58.332			36.09	AAAA
ATOM	2786	C	LEU	348		.561	58.894		1.00	33.30	AAAA
ATOM	2787	O N	GLU	349		.394	58.445			30.51	AAAA
MOTA	2788	N CA	GLU	349		.313	59.292	62.136	1.00	35.53	AAAA
MOTA	2789 2790	CB	GLU	349		.908	59.896	62.217		31.35	AAAA
ATOM	2791	CG	GLU	349		.518	60.717	61.006		29.09	AAAA
MOTA	2792	CD	GLU	349		.481	61.859	60.746		31.78	AAAA
MOTA	2793	OE1		349	23	.937	62.476	61.730		30.98	AAAA
ATOM	2794	OE2	GLU	349	23	.766	62.155	59.569		30.67	AAAA
ATOM	2795	C	GLU	349		.663	58.633	63.471		38.48	AAAA
MOTA	2796	ō	GLU	349		.727	59.303	64.502		40.12	AAAA
MOTA	2797	Ŋ	THR	350		.878	57.326	63.461		33.58	AAAA
ATOM	2798	CA	THR	350	25	.221	56.612		1.00	29.74	AAAA
MOTA	2799	CB	THR	350	23	.992	56.363			35.91	AAAA
MOTA MOTA	2800	OG1		350	23	3.421	57.619			45.03	AAAA AAAA
ATOM	2801	CG2		350	24	.382	55.586			49.48	AAAA
MOTA	2802	С	THR	350		3.821	55.26			30.63	AAAA
ATOM	2803	0	THR	350		5.535	54.709		1.00	26.62 29.07	AAAA
ATOM	2804	N	LEU	351		5.644	54.74		1.00	24.59	AAAA
ATOM	2805	CA	LEU	351		7.271	53.46			29.91	AAAA
ATOM	2806	CB	LEU	351		3.584	53.36		1.00	39.62	AAAA
ATOM	2807	CG	LEU	351		9.591	52.32° 52.46°		1 00	37.09	AAAA
MOTA	2808		LEU	351		0.887	50.93			54.03	AAAA
MOTA	2809		LEU	351		9.024 6.314	52.33	·		29.71	AAAA
MOTA	2810	C	LEU	351		6.130	51.36	-		30.53	AAAA
MOTA	2811	0	LEU	351		5.697	52.48	_	1.00	28.64	AAAA
MOTA	2812	N	LYS	352		4.763	51.47		1.00	32.72	AAAA
MOTA	2813	CA	LYS	352 352		4.913	51.38		1.00	27.37	AAAA
ATOM	2814	CB	LYS LYS	352		6.230	50.78		1.00	43.48	AAAA
ATOM	2815 2816	CG CD	LYS	352		6.536	51.06		1.00	46.77	AAAA
ATOM	2817	CE	LYS	352		5.484	50.53	8 71.451		51.52	AAAA
MOTA	2818	NZ	LYS	352		5.850	50.85	9 72.866		62.08	AAAA
MO 4	2819	C	LYS	352	2	3.330		6 66.731		32.49	AAAA
MO', A MO , A	2820	Ö	LYS	352	2	2.953				31.90	AAAA AAAA
ATOM	2821	11	ASP	353	2	2.525			1.0	0 31.44	AAAA
ATOM	2822	CA	ASP	353	2	1.136				0 26.50	AAAA
ATOM	2823	CB	ASP	353		0.543				0 50.09	AAAA
ATOM	2824	CG	ASP	353	2	0.880	49.17			0 52.79 0 58.55	AAAA
ATOM	2825		L ASP	353	2	1.980	48.86			0 73.19	AAAA
ATOM	2826		ASP	353		0.040			_	0 26.41	AAAA
MOTA	2827		ASP	353		0.328				0 25.73	AAAA
ATOM	2828		ASP	353		0.806				0 30.12	AAAA
ATOM	2829		PRO	354		9.118				0 35.38	AAAA
MOTA	2830	CD	PRO	354		8.428				0 34.02	AAAA
MOTA	2831		PRO	354		8.276				0 32.25	AAAA
ATOM	2832		PRO	354		17.091	_		_	0 44.48	AAAA
ATOM	2833		PRO	354		6.974			_	0 34.00	AAAA
ATOM	2834		PRO	354		L7.838 L7.829			_	0 28.28	AAAA
ATOM	2835		PRO	354		L7.484			_	0 23.89	AAA A
ATCM	2836		TRP	355 355		17.01			9 1.0	0 33.84	AAA
ATOM	2837			355 355		16.65				0 33.84	LAAA
ATOM	2838	CB	TRP		-		•	-			•
							,				

ATOM	2839	CG	TRP	355	17.844	46.946	71.832	1.00 49.97	AAAA
ATOM .	2840	CD2	TRP	355	18.364	45.622	71.905	1.00 46.60	AAAA
MOTA	2841	CE2	TRP	355	19.567	45.682	72.639	1.00 54.73	AAAA
MOTA	2842	CE3		355	17.931	44.386	71.419	1.00 46.90	AAAA
MOTA	2843	CD1		355	18.723	47.746	72.507	1.00 56.10	AAAA
ATOM	2844	NE1		355	19.765	46.991	72.997	1.00 56.07	AAAA
MOTA	2845	CZ2		355	20.340	44.552	72.897 71.674	1.00 55.25 1.00 50.74	AAAA AAAA
MOTA	2846	CZ3		355	18.696	43.267	72.405	1.00 50.68	AAAA
MOTA	2847	CH2	TRP	355	19.887 15.789	43.356 47.712	68.776	1.00 33.12	AAAA
ATOM	2848 2849	0	TRP	355 355 -	15.096	48.705	68.550	1.00 29.41	AAAA
MOTA MOTA	2850	N	ARG	356	15.547	46.508	68.263	1.00 23.90	AAAA
ATOM	2851	CA	ARG	356	14.413	46.237	67.387	1.00 23.96	AAAA
ATOM	2852	CB	ARG	356	14.892	46.096	65.935	1.00 22.66	AAAA
ATOM	2853	CG	ARG	356	15.505	47.385	65.393	1.00 29.06	AAAA
ATOM	2854	CD	ARG	356	16.291	47.212	64.108	1.00 28.92	AAAA
ATOM	2855	NE	ARG	356	16.833	48.503	63.686	1.00 24.73	AAAA
MOTA	2856	CZ	ARG	356	17.733	48.668	62.724	1.00 23.57	AAAA
MOTA	2857		ARG	356	18.209	47.616	62.066	1.00 22.15 1.00 22.69	AAAA AAAA
ATOM	2858		ARG	356 356	18.153 13.781	49.891 44.944	62.418 57.878	1.00 22.09	AAAA
ATOM	2859	С	ARG ARG	356 356	13.785	43.925	67.189	1.00 22.25	AAAA
MOTA	2860 2861	И О	GLY	357	13.231	44:993	69.065	1.00 23.91	AAAA
MOTA MOTA	2862	CA	GLY	357	12.631	43.805	69.657	1.00 26.72	AAAA
ATOM	2863	C	GLY	357	11.138	43.671	69.465	1.00 26.90	AAAA
ATOM	2864	Ö	GLY	357	10.536	44.330	68.619	1.00 29.87	KAAA
ATOM	2865	N	GLY	358	10.544	42.797	70.265	1.00 28.22	AAAA
MOTA	2866	CA	GLY	358	9.118	42.561	70.188	1.00 30.96	AAAA
MOTA	2867	C	GLY	358	8.800	41.274	70.920	1.00 30.03	AAAA AAAA
MOTA	2868	0	GLY	358	9.626	40.757 40.747	71.663 70.715	1.00 24.03 1.00 28.34	AAAA
ATOM	2869	N	GLU	359	7.601 7.218	39.509	71.366	1.00 24.37	AAAA
ATOM	2870	CA CB	GLU	359 359	5.699	39.372	71.375	1.00 32.52	AAAA
MOTA MOTA	2871 2872	CG	GLU	359	4.981	40:327	72.299	1.00 45.44	AAAA
ATOM	2873	CD	GLU	359	3.472	40.250	72.132	1.00 50.43	AAAA
ATOM	2874		GLU	359	2.924	39.125	72.151	1.00 42.92	AAAA
ATOM	2875		GLU	359	2.839	41.316	71.987	1.00 40.72	AAAA .
ATOM	2876	С	GLU	359	7.804	38.323	70.628	1.00 27.35	AAAA
MOTA	2877	0	GLU	359	8.138	38.415	69.449 71.325	1.00 22.94 1.00 19.68	AAAA AAAA
MOTA	2878	N	VAL	360	7.944 8.441	37.208 36.017	70.672	1.00 19.08	AAAA .
ATOM	2879 2880	CA CB	VAL VAL	360 360	9.300	35.188	71.621	1.00 26.71	AAAA
MOTA MOTA	2881		VAL	360	9.783	33.917	70.912	1.00 20.64	AAAA
ATOM	2882		VAL	360	10.486	36.038	72.113	1.00 25.79	AAAA
ATOM	2683	C	VAL	360	7.228	35.202	70.197	1.00 25.51	AAAA
ATOM	2884	0	VAL	360	6.442	34.700	71.011	1.00 19.75	AAAA
ATOM	2885	N	ARG	361	7.065	35.094	68.873	1.00 18.48	AAAA AAAA
ATOM	2886	CA	ARG	361	5.947	34.337	68.30`	1.00 22.01 1.00 19.31	AAAA
ATOM	2887	CB	ARG	361	5.988	34.389 35.671	66.772 66.204	1.00 19.31	AAAA
ATOM	2888	CG	ARG	361 361	5.446 5.735	35.730	64.723	1.00 37.95	AAAA
ATOM	2889	CD NE	ARG ARG	361	7.111	36.148	64.460	1.00 30.73	AAAA
MOTA MOTA	2890 2891	CZ	ARG	361	7.616	36.275	63.242	1.00 22.89	AAAA
ATOM	2892		ARG	361	6.851	36.006 ⁻	62.186	1.00 19.02	AAAA
ATOM	2893		ARG	361	8.861	36.704	63.081	1.00 23.47	AAAA
ATOM	2894	C	ARG	361	5.897	32.879	68.714	1.00 26.11	AAAA
ATOM	2895	0	ARG	361	6.926	32.255	68.968	1.00 21.79	AAAA
ATCM	2896	11	LYS	362	4.681	32.338	68.763	1.00 24.89	AAAA AAAA
ATOM	2897	Cλ	LYS	362	4.479	30.938	69.125 69.070	1.00 28.63 1.00 22.91	AAAA
ATOM	2898	CB	LYS	362	2.981	30.570	70.168	1.00 22.91	AAAA
ATOM	2899	CG	LYS	362 362	2.290	32.715	70.157	1.00 57.51	AAAA
ATOM	2900 2901	CD	LYS	362	1.923	33.278	68.799	1.00 50.87	AAAA
ATOM	2901	NZ	LYS	362	2.307	34.683	68.711	1.00 22.99	AAAA
atom atom	2903	C	LYS	362	5.269	30.014	68.202	1.00 16.77	AAAA
ATOM	3904	ō	LYS	362	5.808	29.007	68.647	1.00 22.90	AAAA
· 	·						-		

3 COM	2905	Ŋ	GLU	363	5.311	30.355	66.913	1.00 25.24	AAAA
MOTA				_			65.910	1.00 26.29	ልልልል
MOTA	2906	CA	GLU	363	6.055	29.577			
			GLU	363	6.207	30.342	64.608	1.00 33.50	AAAA
MOTA	2907	CB							
MOTA	2908	CG	GLU	363	4.999	30.639	63.824	1.00 48.73	aaaa
				-	5.368	31.494	62.638	1.00 42.01	AAAA
MOTA	2909	CD	GLU	363					
3 (00)4	2910	OE1	CUL	363	6.299	31.087	61.895	1.00 28.50	àAàà
- MOTA	_							1.00 44.91	AAAA
ATOM .	2911	CE2	GLU	363	4.738	32.558	62.461		
					7.481	29.326	66.349	1.00 19.00	ÀAAA
ATOM	2912	С	GLU	363					
ATOM	2913	0	GLU	363	8.011	28.218	66.226	1.00 18.66	AAAA
							66.790	1.00 20.69	AAAA
MOTA	2914	2.7	VAL	364	8.121	30.399			
		~-	VAL	364	9.501	30.303	67.219	1.00 23.13	AAAA
MOTA	2915	CA							
ATOM	2916	CЗ	VAL	.364	10.096	31.681	67.510	1.00 16.98	AAAA
						31.513	68.Ô10-	1.00 22.32	AAAA
MÓTA	2917	CG1	VAL	364	11.515				
ATOM	2918	CG2	1721	364	10.082	32.548	66.242	1.00 23.99	AAAA
							68.448	1.00 19.28	AAAA
MOTA	2919	С	VAL	364	9.625	29.415			
	2920	0	VAL	364	10.507	28.548	68.510	1.00 20.17	- አጸአት
MOTA		0							AAAA
ATOM	2921	N	LYS	365	8.735	29.600	69.417	1.00 21.11	
				365	8.780	28.768	70.612	1.00 18.15	AAAA
ATOM	2922	CA	LYS						
ATOM	2923	CB	LYS	3 65	7.711	29.210	71.626	1.00 25.22	AAAA
					7.921	30.611	72.167	1.00 32.99	بتممم
MOTA	2924	CG	LYS	365					
ATOM	292.5	CD	LYS	365	6.901	30.949	73.253	1.00 36.09	AAAA
						32.357	73.790	1.00 28.99	AAAA
ATOM	2926	CE	LYS	365	7.121	34.351			
	2927	NZ	LYS	365	6.178	32.736	74.882	1.00 38.98	AAAA
MOTA									AAAA
MOTA	2928	C	LYS	365	8.574	27.305	70.236		AAA
				365	9.255	26.417	70.758	1.00 22.04	AAAA
MOTA	2929	0	LYS						
MOTA	2930	N	ASP	366	7.635	27.048	69.327	1.00 22.45	ሕ հ ሕሕ
					7.386	25.669	68.915	1.00 22.62	AAAA
ATOM	2931	CA	ASP	366	1.300				
	2932	CB	ASP	366	- 6.173	25.574	67.967	1.00 21.69	AAAA
MOTA							68.634	1.00 27.75	AAAA
MOTA	2933	CG	ASP	366	4.870	25.987			
	2934	001	ASP	366	4.763	25.890	69.881	1.00 31.01	AAAA
MOTA								1.00 33.20	AAAA
ATOM	2935	CD2	ASP	366	3.938	26.382	67.907	1.00 33.20	
				366	8.606	25.034	68.237	1.00 24.53	AAAA
ATOM	2936	С	ASP						
ATOM	2937	0	ASP	366	8.924	23.871	68.480	1.00 21.13	AAAA
					9.281	25.787	67.380	1.00 26.19	AAAA
ATOM	2938	N	THR	367					
MOTA	2939	CA	THR	367	10.462	25.252	66.594	1.00 21.68	AAAA
						26.301	65.742	1.00 14.56	AAAA
MOTA	2940	СB	THR	367	11.035				
	2941	CG1	THR	367	10.085	26.545	64.697	1.00 21.76	AAAA
MOTA	2341							1.00 19.83	AAAA
MOTA	2942	CG2	THR	367	12.340	25.825	65.138		
			THR	367	11.523	24.822	67.710	1.00 19.02	AAAA
MOTA	2943	C						1.00 21.79	AAAA
MOTA	2944	0	THR	367	12.071	23.717	67.625		
	-			368	11.802	25.684	68.683	1.00 18.42	AAAA
MOTA	2945	23	LEU						
ATOM	2946	CA	LEU	368	12.797	25.348	69.700	1.00 21.02	AAAA
					13.148	26.569	70.560	1.00 17.34	AAAA
ATOM	2947	ĊВ	LEU	368					
ATOM	2948	CG	LEU	368	14.206	27.518	69.959	1.00 17.45	AAAA
						26.758	69.817	1.00 16.83	AAAA
ATOM	2949	CD1	LEU	368	15.525				
	2950	23	LEU	368	13.756	28.041	68.593	1.00 19.49	AAAA
ATOM							70.589	1.00 23.17	AAAA
MOTA	2951	÷	LEU	368	12.361	24.189			
MOTA	2952	Ŀ	LEU	368	13.203	23.420	71.052	1.00 24.81	AAAA
							70.839	1.00 23.97	AAAA
MOTA	2953	M	GLU	369	11.059	24.055			
		CA	GLU	369	10.597	22.929	71.653	1.00 19.36	AAAA
ATOM	2954							1.00 21.81	AAAA
MOTA	2955	CB	GLU	369	9.127	23.113	72.063		
				369	8.913	24.225	73.100	1.00 40.15	AAAA
ATOM	2956	CG	GLU						AAAA
ATOM	2957	CD	GLU	369	7.450	24.416	73.487	1.00 49.38	
				369	6.806	23.429	73.905	1.00 43.26	AAAA
ATOM	2958	CEL	GLU						
ATOM	2959	OE2	GLU	369	6.948	25.558	73.382	1.00 57.31	AAAA
						21.623	70.859	1.00 24.29	AAAA
ATOM	2960	C	GLU	369	10.778				
	2961	2	GLU	369	11.172	20.605	71.420	1.00 25.96	AAAA
ATOM								1.00 22.98	AAAA
ATOM	2962	N	LY5	370	10.488	21.643	69.560		
				370	10.665	20.437	68.746	1.00 23.19	AAAA
MOTA	2963	CA	LYS						AAAA
MOTA	2964	CB	LYS	370	10.051	20.596	67.347	1.00 26.83	
					8.537	20.461	67.287	1.00 36.68	aaaa
ATOM	2965	2G	LYS	370					
	2966	CD	LYS	370	3.056	20.431	65.832	1.00 39.85	AAAA
MOTA							65.740	1.00 56.23	AAAA
MOTA	2967	CE	LYS	370	6.567	20.105			
	2968	:12	LYS	370	6.082	19.996	64.326	1.00 56.10	<u>አ</u> አአአ
ATOM							68.602	1.00 31:63	AAAA
ATOM	2969	C	LYS	370	12.148	20.123			
	2970	э	LYS	370	12.549	18.958	68.587	1.00 36.88	AAAA
ATOM	0/ و د	5	وير	3,0	***		-		•
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ATOM	2971	N	ALA	371	12.961	21.170	68.491	1.00 26.25	AAAA
ATOM	2972	CA	ALA	371	14.407	21.009	68.360	1.00 27.33	AAAA
ATOM	2973	CB	ALA	371	15.079	22.370	68.188	1.00 23.70	AAAA
	2974	C	ALA	371	14.989	20.308	69.581	1.00 26.74	AAAA
MOTA	2975		ALA	371	15.892	19.482	69.452	1.00 29.52	AAAA
ATOM	2976	0	ALA	372	14.484	20.652	70.764	1.00 24.83	AAAA
ATOM	2977	N	ALA	372	14.959	20.055	72.012	1.00 34.24	AAAA
ATOM		CA		372	14.305	20.750	73.214	1.00 37.17	AAAA
MOTA	2978	CB	ALA	.372	14.663	18.564	72.061	1.00 45.62	AAAA
ATOM	2979	C	ALA	372	15.563	17.741	72.280	1.00 35.52	AAAA
ATOM	2980	0	ALA	373	13.394	18.216	71.869	1.00 44:50	AAAA
MOTA	2981	N	ALA	373 373	13.004	16.813	71.892	1.00 49.88	AAAA
ATOM	2982	CA	ALA	373 373	11.506	16.681	71.628	1.00 49.32	AAAA
ATOM	2983 2984	CB C	ALA ALA	373 373	13.807	16.072	70.825	1.00 44.64	AAAA
ATOM			ALA	373	14.669	15.250	71.201	1.00 58.19	AAAA
ATOM	2985 2986	0	ALA	373	13.591	16.337	69.626	1.00 41.63	AAAA
ATOM HETATM			WAT	1	36.368	43.907	49.242	1.00 13.03	SOLV
HETATM			TAW	2	23.107	30.584	59.802	1.00 11.42	SOLV
HETATM			WAT	3	20.594	33.744	61.457	1.00 14.73	SOLV
HETATM	2000		WAT	4	31.359	16.551	51.590	1.00 19.84	SOLV
HETATM			TAW	5	30.389	18.140	45.769	1.00 19.94	SOLV
HETATM			WAT	6	16.925	41.748	56.551	1.00 13.33	SOLV
HETATM			WAT	7	28.448	16.084	62.316	1.00 14.08	SOLV
HETATM			WAT	8	40.375	38.476	55.678	1.00 19.10	SOLV
HETATM			WAT	9	18.455	29.667	54.797	1.00 18.81	SOLV
HETATM	2996		WAT	10	26.305	18.390	59.507	1.00 16.65	SOLV
HETATM			WAT	11	50.145	32.063	58.142	1.00 16.53	SOLV
HETATM			TAW	12	45.935	30.996	40.672	1.00 25.08	SOLV
HETATM	2999		TAW	13	26.358	43.110	74.179	1.00 22.91	SOLV
HETATM			WAT	14	48.727	24.720	56.917	1.00 25.49	SOLV
HETATM			TAW	15	30.244	18.663	50.165	.1.00 25.78	SOLV
HETATM			WAT	16	10.615	28.799	63.631	1.00 22.40	SOLV
HETATM			WAT	17	18.401	20.018	62.704	1.00 21.46	SOLV
HETATM			WAT	18	22.195	47.791	60.896	1.00 26.19	SOLV
HETATM			WAT	19	3:278	32.141	65.350	1.00 20.38	SOLV
HETATM			TAW	20	23.643	22.897	59.512	1.00 21.27	SOLV
HETATM	3007		WAT	. 21	50.287	23.101	48.818	1.00 19.73	SOLV.
HETATM		OH2	WAT	22	44.725	34.256	46.541	1.00 18.74	SOLV
HETATM		OH2	TAW	23	8.346	30.527	49.922	1.00 22.33	SOLV
HETATM		OH2	WAT	24	39.855	33.795	67.390	1.00 20.43	SOLV
HETATM		OH2	WAT	25	7.827	32.763	57.779	1.00 19.24	SOLV
HETATM		CH2	WAT	26	45.388	34.567	36.246	1.00 20.86	SOLV
HETATM		OH2	TAW	27	47.636	32.244	33.388	1.00 20.41	SOLV
HETATM			WAT	28	32.514	35.684	41.278	1.00 24.76	SOLV
HETATM			WAT	29	26.188	15.341	61.913	1.00 19.63	SOLV
HETATM	3016		WAT	30		43.169		1.00 23.80 1.00 27.25	SOLV
HETATM			TAW	31	24.483	43.556	55.704	1.00 27.22	SOLV
HETATM			TAW	32	41.141	16.376	48.456	1.00 25.33	SOLV
HETATM			WAT	33	23.104	17.625	54.086 57.694	1.00 20.37	SOLV
HETATM			TAW	34	51.301	28.602		1.00 32.78	SOLV
HETATM			WAT	35	51.376	29.469 22.131	53.156 49.816	1.00 23.60	SOLV
HETATM			WAT	36	12.518		50.861	1.00 25.87	SOLV
HETATM			WAT	37	6.521	27.442 33.757	34.190	1.00 19.87	SOLV
HETATM			WAT	38	30.390		62.062	1.00 32.01	SOLV
HETATM			WAT	39	8.328	29.586	30.724	1.00 32.61	SOLV
HETATM			TAW	40	30.180	24.235	38.395	1.00 27.52	SOLV
HETATM	3027		TAW	41	44.521	18.043	41.186	1.00 27.32	SOLV
HETATM	3028		TAW	42	30.981	37.127	73.830	1.00 29.36	SOLV
HETATM			TAW	43.	14.632 39.332	25.953	72.230	1.00 21.87	
HETATM			TAK	44	7.597	37.592	51.896	1.00 39.62	SOLV
HETATM	3031		WAT	45 46	15.027	18.079	54.827	1.00 26.65	SOLV
HETATM			TAW	46	11.076	45.493	66.435	1.00 38.18	SOLV
HETATM	3033		TAW	47	42.124	18.055	37.233	1.00 28.62	SOLV
HETATM	3034		TAW	48	48.736	25.764	64.149	1.00 31.88	SOLV
НЕТАТМ			WAT	49 50	50.383	27.254	54.972	1.00 24.36	SOLV
MPLTE	1036	OH2	WAT	50	JU.JUJ	21.234			

				40 650	36.025	68.226	1.00 33.89	SOLV
HETATM		CH2 WA		48.659			1.00 21.03	SOLV
HETATM	3038	OH2 WA'	T 52	36.998	27.228	71.440		SOLV
HETATM		OH2 WA	r 53	41.303	16.309	55.307	1.00 32.23	
HETATM		OH2 WA		33.242	39.524	49.454	1.00 29.77	SOLV
HETATM		OH2 WA	-	45.004	25.973	35.031	1.00 21.59	SOLV
			_	19.039	25.829	45.793	1.00 33.48	SOLV
HETATM		OH2 WA			35.542	50.154	1.00 37.51	SOLV
MTATEH		OH2 WA		17.922			1.00 26.54	SOLV
HETATM	3044	CH2 WA	т 58	10.409	26.864	73.166		
HETATM		OH2 WA	T 59	11.835	22.805	59.408	1.00 20.83	SOLV
HETATM	3046	OH2 WA		18.254	48.699	53.224	1.00 28.41	SOLV
				10.426	26.647	60.447	1.00 32.72	SOLV
HETATM		OH2 WA		21.304	55.086	63.510	1.00 28.84	SOLV
HETATM		OH2 WA			51.211	45.469	1.00 32.48	SOLV
HETATM	3049	OH2 WA		32.532			1.00 27.32	SOLV
HETATM	3050	OH2 WA	т 64	22.658	61.079	57.420		
HETATM		OH2 WA	T 65	16.734	24.334	74.721	1.00 27.44	SOLV
HETATM		OH2 WA		32.758	37.824	54.391	1.00 25.07	SOLV
		OH2 WA		11.142	25.859	49.706	1.00 29.66	SOLV
HETATM	3033			24.192	15.261	53.236	1.00 30.21	SOLV
HETATM		OH2 WA		19.816	17.916	66.357	1.00 30.50	SOLV
HETATM		OH2 WA				53.197	1.00 28.08	SOLV
HETATM	3056	OH2 WA		50.347	23.975			SOLV
HETATM	3057	OH2 WA	T 71	50.258	30.918	51.113	1.00 20.19	
HETATM		OH2 WA		21.047	17.624	68.693	1.00 41.23	SOLV
HETATM	3050	OH2 WA		26.782	33.756	49.995	1.00 25.80	SOLV
		OH2 WA		12.570	43.844	64.441	1.00 31.03	SOLV
HETATM				35.555	41.287	50.852	1.00 24.03	SOLV
HETATM	3061	OH2 WA				61.827	1.00 18.28	SOLV
HETATM		OH2 WA		27.764	18.231		1.00 23.18	SOLV
HETATM	3063	OH2 WA	T 77	26.715	29.236	38.391		
HETATM	3064	OH2 WA	T 78	21.461	23.245	48.872	1.00 23.80	SOLV
HETATM	3065	OH2 WA		49.246	28.263	65.477	1.00 21.52	SOLV
HETATM		OH2 WA		31.785	13.301	69.606	1.00 31.11	SOLV
				49.811	34.740	59.229	1.00 31,76	SOLV
HETATM	306/	OH2 WA		45.670	33.188	42.470	1.00 23.13	SOLV
HETATM	3068	OH2 WA				55.872	1.00 31.53	SOLV
HETATM	3069	OH2 WA		9.408	39.751		1.00 37.32	SOLV
HETATM	3070	OH2 WA	T 84		35:878	29.899		
HETATM		OH2 WA	AT 85	41.927	22.970	73.694	1.00 44.07	SOLV
HETATM		OH2 WA		22.125	34.577	49.199	1.00 44.65	SOLV
HETATM		OH2 WA		43.984	33.541	37.965	1.00 24.88	SOLV
				11.997	17.962	56.312	1.00 34.85	SOLV
HETATM	30/4	OH2 W		42.194	14.737	59.766	1.00 25.91	SOLV
HETATM		OH2 W			24.200	41.684	1.00 29.29	SOLV
HETATM	3076	OH2 W		49.313			1.00 30.32	SOLV
HETATM	3077	OH2 W	AT 91	48.504		61.519		SOLV
HETATM		OH2 W	AT 92	24.773	18.356	33.365	1.00 53.13	
HETATM		OH2 W		35.160	35.656	47.470	1.00 41.41	SOLV
HETATM		OH2 W		44.682	36.658	39.962	1.00 29.24	SOLV
HEIAIM	3000	OH2 W		9.576	41.033	52.549	1.00 51.83	SOLV
HETATM	3081			47.199	20.112	42.102	1.00 40.39	SOLV
HETATM		OH2 W	-		26.331	59.641	1.00 37.03	SOLV
HETATM	3083	OH2 W		49.254			1.00 28.74	SOLV
HETATM	3084	OH2 W		26.808	37.600	38.172	1.00 28.74	SOLV
HETATM		OH2 W	AT 99	40.749	14.572	64.635		
HETATM		OH2 W		24.850	44.161	47.775	1.00 27.89	SOLV
HETATM	3007	OH2 W		34.326	42.063	46.714	1.00 42.22	
HETAIR	2007			30.226	34.544	52.026	1.00 30.77	SOLV
HETATM		OH2 W		47.824	39.054	78.097		SOLV
HETATM	3089	OH2 W				47.438	1.00 51.70	SOLV
HETATM	090	OH2 W		19.665	18.953		1.00 23.65	SOLV
HETATM	3091	OH2 W	AT 105	46.857	36.525	46.232		SOLV
HETATM	3092	OH2 W		48.069	19.460			
HETATM	3003	OH2 W		15.553	56.850	61.838	1.00 46.95	SOLV
JE TAIN	1 2004	OH2 W		44.026	19.119	70.671	1.00 39.55	SOLV
HETATM	3094			8.139	42.064	65.674		SOLV
HETATI	1 3095	OH2 W			36.591	65.779		SOLV
HETATI		OH2 W		50.624				SOLV
HETATI		OH2 W	AT 111	51.398	26.073			SOLV
HETATA		OH2 W	_	-26.174	33.692		1.00 36.61	
HETATI		OH2 W		23.545	20.203			SOLV
neinii	* 2022			9.083	42.965		1.00 33.65	SOLV
HETATI	1 2100	OH2 W		8.442				SOLV
HETATI	1 3101	OH2 W		15.219	35.897			SOLV
HETATI	1 3102	OH2 W	AT 116	13.213	55.051			•
•		•						

HETATM 3103	CH2 WAT	117	15.417	38.438	50.473	1.00 34.46	SOLV
				26 210	29.206	1.00 29.12	SOLV
HETATM 3104	OH2 WAT	118	40.757				
HETATM 3105	OH2 WAT	119	27.717	18.542	46.553	1.00 28.17	SOLV
			_		56.845	1.00 38.56	SOLV
HETATM 3106	OH2 WAT	120	18.612	13.786			
HETATM 3107	OH2 WAT	121	43.198	31.377	72.139	1.00 26.31	SOLV
					33.802		
HETATM 3108	OH2 WAT	122	44.188	35.704		1.00 29.81	SOLV
HETATM 3109	OH2 WAT	123	50.736	40.909	58.456	1.00 32.40	SOLV
HETATM 3110	OH2 WAT	124	31.302	33.760	31.742	1.00 30.84	SOLV
		125	36.895	21.264	34.198	1.00 34.67	SOLV
HETATM 3111	OH2 WAT	-					
HETATM 3112	OH2 WAT	126	47.474	22.252	67.427	1.00 34.35	SOLV
		127	. 7.178	25.936	64.063	1.00 31.77	SOLV
HETATM 3113	OH2 WAT						
HETATM 3114	OH2 WAT	128	36.362	66.647	54.021	1.00 36.88	SOLV
		129		35.503	30.348	1.00 26.61	SOLV
HETATM 3115	OH2 WAT	-					
HETATM 3116	OH2 WAT	130	8.432	34.383	50.442	1.00 37.45	SOLV
			37.644		48.946	1.00 37.33	SOLV
HETATM 3117	OH2 WAT	131					
HETATM 3118	OH2 WAT	132	50.273	41.645	63.380	1.00 37.33	SOLV
			7.518	26.633	61.571	1.00 45.42	SOLV
HETATM 3119	OH2 WAT	133					
HETATM 3120	OH2 WAT	134	31.483	46.197	72.538	1.00 28.02	SOLV
			41.501	16.604	58.054	1.00 32.78	SOLV
HETATM 3121	OH2 WAT	135					
HETATM 3122	OH2 WAT	136	45.898	47.740	55.185	1.00 43.47	SOLV
				33.614	49.519	1.00 30.37	SOLV
HETATM 3123	OH2 WAT	137					
HETATM 3124	OH2 WAT	138	51.148	36.946	55.148	1.00 46.34	SOLV
				53.761	50.892	1.00 38.27	SOLV
HETATM 3125	OH2 WAT						
HETATM 3126	OH2 WAT	140	21.603	54.580	68.690	1.00 33.10	SOLV
					60.325	1.00 30.24	SOLV
HETATM 3127	OH2 WAT	141	10.191	29.237			
HETATM 3128	OH2 WAT	142	16.951	18.120	66.901	1.00 40.85	SCLV
					51.199	1.00 49.13	SOLV
HETATM 3129	OH2 WAT	143	4.943	24.912			
HETATM 3130	OH2 WAT	144	10.711	25.291	58.177	1.00 30.72	SOLV
					36.040	1.00 42.23	SOLV
HETATM 3131	OH2 WAT	145		43.398			
HETATM 3132	OH2 WAT	146	21.763	24.512	46.695	1.00 28.31	SOLV
					50.887	1.00 26.15	SOLV
HETATM 3133	OH2 WAT	147		33.122			
HETATM 3134	OH2 WAT	148	24.531	44.741	72,420	1.00 27.99	SOLV
			50.030	23.483	50 422	1.00 38.20	SOLV
HETATM 3135	OH2 WAT	149	50.936	23.483			
HETATM 3136	OH2 WAT	150	24.860	47.932	61.067	1.00 18.89	SOLV
REIRIII SISO	•			37.304	35.642	1.00 33.58	SOLV
HETATM 3137	OH2 WAT	151					
HETATM 3138	OH2 WAT	152	38.680	35.535	35.974	1.00 26.89	SOLV
MEIAIN SIDO					33.317	1.00 48.33	SOLV
HETATM 3139	OH2 WAT	153	24.441	16.097			
HETATM 3140	OH2 WAT	154	20.343	18.124	73.416	1.00 36.28	SOLV
					74.801	1.00 48.41	SOLV
HETATM 3141	OH2 WAT	155		37.948			
HETATM 3142	OH2 WAT	156	34.329	31.169	47.547	1.00 25.33	SOLV
				24.554	72.536	1.00 41.54	SOLV
HETATM 3143	OH2 WAT	157	43.028				
HETATM 3144	OH2 WAT	158	39.888	15.082	42.035	1.00 28.76	SOLV
			41.886	20.780	73.179	1.00 51.03	SOLV
HETATM 3145	OH2 WAT	159					
HETATM 3146	OH2 WAT	160	22.962	49.969	58.518	1.00 35.04	SOLV
			14.696	15.261	68.016	1.00 55.47	SOLV
HETATM 3147	OH2 WAT	161					
нетатм 3148	OH2 WAT	162	14.915	18.181	64.866	1.00 42.00	SOLV
		163	30.608	49.029	52.612	1.00 47.32	SOLV
HETATM 3149	OH2 WAT					1.00 47.52	
HETATM 3150	OH2 WAT	164	52.566	30.906	57.612	1.00 36.71	SOLV
		165	23.699	27.331	77.729	1.00 32.22	SOLV
HETATM 3151	OH2 WAT						
HETATM 3152	OH2 WAT	166	36.971	59.046	63.272	1.00 43.05	SOLV
**************************************	OH2 WAT	167	46.053	45.927	52.876	1.00 33.66	SOLV
HETATM 3153							
HETATM 3154	OH2 WAT	168	42.780	49.151	58.106	1.00 44.63	SOLV
		169	15.100	44.506	72.183	1.00 45.43	SOLV
HETATM 3155	OH2 WAT						
нетати 3156	OH2 WAT	170	31.677	60.998	50.050	1.00 34.51	SOLV
			25.336	45.674	45.578	1.00 55.85	SOLV
HETATM 3157	OH2 WAT	171					
HETATM 3158	OH2 WAT	172	17.481	18.266	49.018	1.00 32.73	SOLV
	OH2 WAT	173	26.112	18.147	31.404	1.00 49.94	SOLV
HETATM 3159							
HETATM 3160	OH2 WAT	174	45.874	43.142	70.985	1.00 32.89	SOLV
		175	- 34.517	17.884	33.278	1.00 42.20	SOLV
HETATM 3161	CH2 WAT						
HETATM 3162	OH2 WAT	176	16.330	54.886	50.466	1.00 40.74	SOLV
			31.400	51.087	74.689	1.00 38.56	SOLV
HETATM 3163	OH2 WAT	177					
HETATM 3164	OH2 WAT	178	50.971	27.079	67.130	1.00 44.49	SOLV
			7.933	23.412	54.691	1.00 42.84	SOLV
HETATM 3165	OH2 WAT	179					
HETATM 3166	OH2 WAT	180	33.498	47.596	73.612	1.00 35.99	SOLV
			26.016	19.583	44.954	1.00 51.31	SOLV
HETATM 3167	OH2 WAT	181					
HETATM 3168	OH2 WAT	182	40.139	17.026	74.920	1.00 43.64	SOLV
.1512111 7200			-		•		

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					10.441	42.659	62.744	1.00 34.51	SOLV
MTATM		OH2		183	2.095	34.482	65.810	1.00 36.49	SOLV
HETATM	3170	OH2		184	45.749	18.286	51.615	1.00 28.19	SOLV
HETATM		OH2		185		38.332	76.707	1.00 45.53	SOLV
HETATM	3172		WAT	186	25.771	40.382	57.542	1.00 48.91	SOLV
HETATM	3173		TAW	187	7.228		67.739	1.00 39.99	SOLV
HETATM	3174		TAW	188	42.972	52.824	73.277	1.00 44.91	SOLV
HETATM	3175		WAT	189	20.137	13.189	47.581	1.00 52.88	SOLV
HETATM			WAT	190	48.945	19.193	47.665	1.00 49.15	SOLV
HETATM		OH2	TAW	191	14.549	34.547		1.00 42.23	SOLV
HETATM	3178		WAT	192	31.765	20.567	26.536 74.222	1.00 32.10	SOLV
METATM	3179		TAW	193	9.784	39.303		1.00 50.98	SOLV
HETATM	3180		TAW	194	28.865	12.481	52.375 70.409	1.00 52.43	SOLV
HETATM	3181	OH2	TAW	195 ·	24.030	12.804	50.698	1.00 43.03	SOLV
HETATM	3182		TAW	196	47.209	39.536		1.00 41.11	SOLV
HETATM	3183		WAT	197	35.618	18.114	27.306	1.00 48.20	_ SOLV
HETATM	3184		TAW	198	23.625	48.145	43.853 54.185	1.00 34.99	SOLV
HETATM	3185	OH2	WAT	199	37.090	59.044	59.080	1.00 34.55	SOLV
HETATM	3186		TAW	200	34.478	12.208	76.228	1.00 33.95	SOLV
HETATM	3187		WAT	201	22.142	29.583	53.973	1.00 40.44	SOLV
HETATM			TAW	202	13.608	42.619	72.526	1.00 55.64	SOLV
HETATM	3189		WAT	203	42.647	18.701	77.480	1.00 34.82	SOLV
HETATM	3190	OH2	WAT	204	37.005	35.993	33.327	1.00 31.00	SOLV
HETATM	3191		TAW	205	34.154	20.512		1.00 49.58	SOLV
HETATM	3192		TAW	206	37.264	57.546	47.642 79.003	1.00 45.35	SOLV
HETATM	3193		TAW	207	17.924	35.195	62.378	1.00 35.37	SOLV
HETATM	3194	OH2	WAT	208	51.172	31.581	79.224	1.00 39.95	SOLV
HETATM	3195	OH2	TAW	209	50.503	36.726	63.852	1.00 52.08	SOLV
HETATM	3196		TAW	210	18.382	13.162	55.199	1.00 32.00	SOLV
HETATM	3197		TAW	211	27.245	8.351	59.540	1.00 30.15	SOLV
HETATM	3198	OH2	TAW	212	18.354	13.545	63.388	1.00 36.69	SOLV
HETATM	3199		TAW	213	49.088	51.744	50.871	1.00 42.11	SOLV
HETATM	1 3200		TAW S	214	23.251	33.160	50.651	1.00 38.63	SOLV
HETAT	3201		TAW S	215	12.989	35.073 44.460	43.239	1.00 37.93	SOLV
HETATI	1 3202		TAW S	216	24.414	47.590	73.117	1.00 34.17	SOLV
HETAT	1 3203	OH	TAW S	217	24.690	17.949	81.360		SOLV
HETATI	1 3204		TAW 2	218	19.844	27.215	74.247	1.00 37.83	SOLV
HETATI	4 3205		2 WAT	219	40.169	39.516	73.171	1.00 49.20	SOLV
HETATI	4 3206		2 WAT	220	38.737	21.408		1.00 45.57	SOLV
HETATI	4 3207		2 WAT	221	50.628			1.00 37.33	SOLV
HETATI	M 3208		2 WAT	222	35.436			1.00 35.10	SOLV
HETAT	1 3209		2 WAT	223	34.390				SOLV
HETAT	M 3210		2 WAT	224	21.900				SOLV
HETAT	м 3211		2 WAT	225	15.751				SOLV
HETAT	M 3212		2 WAT	226	23.844				SOLV
HETAT	M 3213	ЭН	2 WAT	227	47.225				SOLV
HETAT	M 3214	OH	2 WAT	228	23.126	13.212	50.50-		

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						iguic 17-1	•					
					Residue		Y	Z	occ.	В	Segment	t ID
ATOM	1	CB	ALA	A	2	43.739	36.862	75.052	1.00	64.01	6	
MOTA	2	C	ALA	Α	2	44.405	38.106	72.971	1.00	60.02	6	
ATOM	3	Ó	ALA		2	43.251	38.536	72.908	1.00	57.94	8	
ATOM	4	N	ALA		2	46.142	37.179	74.497		62.88	7	
	5		ALA		2	44.776	36.966	73.923		63.02	6	
ATOM		CA								55.40	7	
MOTA	6	N	LYS		3	45.398	38.588	72.233				
Mota	7	ÇA	LYS		3	45.196	39.671	71.287		53.02	6	
MOTA	8	CB	LYS	Α	3	46.443	39.830	70.421		53.11	6	
MOTA	9	CG	LYS	Α	. 3	47.703	40.093	71.217	1.00	57.36	6	
MOTA	10	CD	LYS	Α	3	48.941	39.976	70.349	1.00	60.94	6	
ATOM	11	CE	LYS		3	48.909	40.957	69.196	1.00	63.48	6	
ATOM	12	NZ	LYS		3	50.075	40.765	68.294	1.00	66.87	7	
	13	C	LYS		3	43,986	39.401	70.399		50.49	6	
ATOM			LYS		3	43.691	38.255	70.063		52.50	8	
ATOM	14	0						70.033		45.96	7	
MOTA	15	N	VAL		4	43.281	40.464					
MOTA	16	ÇA	VAL		4	42.122	40.352	69.167		41.16	6	
MOTA	17	CB	VAL	A	4	40.983	41.272	69.638		41.53	6	
ATOM	18	CG1	VAL	А	4	39.734	41.028	68.797		40.07	6	
MOTA	19	CG2	VAL	Α.	4	40.705	41.033	71.115	1.00	38.31	6	
ATOM	20	С	VAL	à	4	42.519	40.796	67.796	1.00	39.96	6	
MOTA	21	0	VAL		4	43.123	41.914	67.645	1.00	39.15	8	
ATOM	22	N	LYS		5	42.486	39.916	66.807	1.00	36.24	7	
	23	CA	LYS		5	42.956	40.186	65.449		35.66	6	
MOTA						43.930	39.088	65.024		37.33	5	
MOTA	24	CB	LYS		5			65.860				
ATOM	25	CG	LYS		5	45.197	38.978			38.24	6 .	
MOTA	26	CD	LYS		5	46.113	40.179	65.659		35.41	6	
ATOM	27	CE	LYS	A	5	47.436	39.957	66.369		37.46	6	
ATOM	28	NZ	LYS	Α	5	48.345	41.121	66.245		35.63	7	
ATOM	29	C	LYS	Α	5	41.840	40.254	64.415	1.00	34.40	6	
ATOM	30	0	LYS	A	5	40.788	39.641	64.588	1.00	33.92	8	
ATOM	31	N	LEU		6	42.082	40.983	63.329	1.00	32.52	7	
MOTA	32	CA	LEU		6	41.097	41.094	62.253		33.64	6	
	33	CB	LEU		6	40.589	42.532	62.114		31.83	6	
ATOM					6	39.346	42.823	61.248		32.93	6	
ATOM	34	CG	LEU					60.899		28.95	6	
MOTA	35		LEU		6	39.356	44.295					
ATOM	36		LEU		6	39.336	42.031	59.964		32.87	6	
MOTA	37	С	LEU		6	41.802	40.721	60.955		35.09	6	
MOTA	38	0	LEU	Α	6	42.631	41.491	60.468		36.93	8	
MOTA	39	N	ILE	Α	7	41.494	39.561	60.382		35.52	7	
MOTA	40	CA	ILE		7	42.145	39.199	59.129	1.00	35.14	6	
ATOM	41	CB	ILE		7	42.062	37.711	58.850	1.00	33.68	6	
ATOM	42		ILE		7	42.731	37.409	57.517	1.00	32.87	6	
ATOM	43		ILE		7	42.746	36.941	59.975		33.32	6	
	44		ILE		7	42.744	35.451	59.755		35.09		
MOTA					7	41.487						
MOTA	45	C						57.855		35.21	8	
ATOM	46	0	ILE		7	40.258	39.933					
MOTA	47	N	GLY		8	42.304	40.563	57.124		37.25		
atom -	48	CA	GLY		8	41.771	41.305	55.994		38.69		
ATOM	<u> 49</u>	С	GLY	А	8	42.809	41.939	55.079		39.73	6	
MOTA	50	0	GLY	Α	8	44.015	41.827	55.321		39.21	8	
MOTA	51	N	THR	Α	9	42.335	42.622	54.033	1.00	39.41	7	
ATOM	53	CA	THR	A	9	43.212	43.268	53.057	1.00	38.69	6 .	
ATOM	53	CB	THR		9	44.132	42.210	52.390	1.00	37.27		
	54		THR		ģ	44.754	42.771	51.230		36.82	8	
ATOM						43.332	40.972	52.001		38.59		
ATOM	55		THR		9			51.970		38.60		
MOTA	56	C	THR		9	42.447	44.045					
ATCM	57	0	THR		9	41.434	43.569	51.452		37.30		
MOTA	58	N	LEU	Α	10	42.939	45.238	51.628		38.14		
MOTA	59	CA	LEU	Α	10	42.304	46.077	50.€09		39.39		
ATOM	60	CB	LEU		10	43.026	47.418	50.456		38.98		
ATOM	61	cG	LEU		10	42.836	48.506	51.510	1.00	39.68		
	62		LEU		10	41.343	48.830	51.594		40.22		
ATOM			LEU		10	43.382	48.057	52.857		40.11		
ATOM	63						45.432	49.239		41.66		•
ATOM	64	c	LEU		10	42.238						
'ATOM	63	0	LEU		10	41.462	45.863	48.381		42.08		•
ATOM	66	N	ASP	Α	11	43.052	44.408	49.025	1.00	43.51	, ,	

Figure 17-2

ATOM	67 CA ASP A 11	43.071 43.731 47.737 1.00 47.27 6 44.250 42.765 47.694 1.00 51.03 6
ATOM	68 CB ASP A 11	44.250 42.703 47.858 1.00 54.10 6
ATOM	69 CG ASP A 11	45.373 44.282 46.975 1.00 55.93 8
ATOM	70 OD1 ASP A 11	46 355 43 251 48.879 1.00 57.79 8
ATOM	71 OD2 ASP A 11	40.255 43.016 47.423 1.00 46.36 5
ATOM	72 C ASP A 11	41.730 43.702 46.266 1.00 43.49 8
ATOM	73 O ASP A 11	41.472 42.767 48.456 1.00 46.80 7
ATOM	74 N TYR A 12	20 054 42:116 48.284 1.00 45.92
ATOM	75 CA TYR A 12	38 953 41.942 49.638 1.00 41.38 6
ATOM	76 CB TYR A 12	39 358 40.697 50.390 1.00 38.82
ATOM		39.531 40.720 51.775 1.00 37.93
MOTA	, , , , , , , , , , , , , , , , , , , ,	39.869 39.560 52.476 1.00 38.18
MOTA	79 CE1 TYR A 12 80 CD2 TYR A 12	39.533 39.479 49.721 1.00 35 83 6
ATOM	81 CE2 TYR A 12	39.868 38.310 50.413 1.00 34 10 6
MOTA MOTA	82 CZ TYR A 12	40.032 30.303 470 1 00 36 31 8
ATOM	83 OH TYR A 12	40.339 37.210 47.378 1.00 46.56 6
ATOM	84 C TYR A 12	37 231 42 476 46.791 1.00 47.38 8
ATOM	85 O TYR A 12	37.022 47.278 1.00 47.28
MOTA	86 N GLY A 13	38 385 45.164 46.442 1.00 46.53
MOTA	67 C CEC	38.650 44.934 44.968 1.00 45.60
MOTA	30 C 022 1	37.895 45.401 44.117 1.00 43.68 6
ATOM	09 0 022 11	39.725 44.210 44.672 1.00 47 28 6
MOTA	90 N LYS A 14 91 CA LYS A 14	40.112 43.908 43.200 1.00 50.22 6
ATOM	92 CB LYS A 14	41.025 43.140 10.00 17 12 6
atom atom	93 CG LYS A 14	42.396 45.044 43.30. 1.00 63 60 6
ATOM	94 CD LYS A 14	42.036 45.622 40.768 1.00 66.65 6
ATOM	95 CE LYS A 14	E20 44 220 40.387 1.00 6/./0 /
ATOM -	96 NZ LYS A 14	39 460 42.643 42.769 1.00 44.18
MOTA	97 C LYS A 14 98 O LYS A 14	39.564 42.325 41.585 1.00 40.33
MOTA	JO 0 15	38.790 41.926 43.661 1.00 43.23
ATOM	99 N TYR A 15	38.143 40.003
MOTA MOTA	101 CB TYR A 15	38.789 39.547 44.142 1.00 32 96 6
MOTA	102 CG TYR A 15	40.302 33.303 45 100 1 00 30 90 6
MOTA	103 CD1 TYR A 15	41.084 39.144 45.035 1.00 30.94 6
MOTA	104 CE1 TYR A 15	42.470 40.049 42.912 1.00 33.01 6
MOTA	105 CD2 TYR A 15	42.341 40.092 42.826 1.00 29.68 6
MOTA	100 CDD 115	43.098 39.639 43.890 1.00 30.99
ATOM	10, 02 11	44.471 39.673 43.809 1.00 28.02
ATOM	108 OH TYR A 15 109 C TYR A 15	36.661 40.778 43.621 1.00 15.22 8
ATOM ATOM	110 O TYR A 15	36.149 40.133 44.332 21.00 48.81 7
ATOM	111 N ARG A 16	35.981 41.919 42.999 1.90 53.22 6
ATOM	112 CA ARG A 16	34.333 43.263 42.654 1 30 57.11 6
ATOM	113 CB ARG A 16	34 852 44.330 43.490 1 10 61.66
ATOM	114 00 1111	34.280 44.408 44.886 1.00 67.04
MOTA	115 05 1110	34.798 45.590 45.569 1.00 75.33
ATOM	116 NE ARG A 16 117 CZ ARG A 16	34.612 40.037 43.112 1.00 73 03 7
ATOM	118 NH1 ARG A 16	33.917 47.003 45.000 1.00 75.79 7
atom atom	119 NH2 ARG A 16	35.142 40.003 42.080 1.00 51.79 6
ATOM	120 C ARG A 16	33.737 40.593 40.970 1.00 50.89 8
ATOM	121 O ARG A 16	32 596 40.463 42.552 1.00 50.19 7
ATOM	122 N TYR A 17	31 737 39.634 41.733 1.00 49.60 6
ATOM	123 CA TYR A 17	30.534 39.119 42.528 1.00 45.80 6
ATOM	124 62 111	30.803 37.894 43.365 1.00 42.01 6
ATOM		31.589 37.932 44.438 1.00 42.45
ATOM	126 CD1 TYR A 17 127 CE1 TYR A 17	31.960 36.780 45.193 1.00 43.30
ATOM	128 CD2 TYR A 17	30.185 36.680 43.002 1.00 40 56 6
ATOM ATOM	129 CE2 TYR A 17	30.443 35.528 44.869 1.00 41.98 6
ATOM	130 CZ TYR A 17	31.333 33.338 45.598 1.00 34.66 8
ATOM	131 OH TYR A 17	31.600 34.438 45.596 1.00 51.88 6 31.245 40.547 40.622 1.00 51.88 6
ATOM	132 C TYR A 17	
	•	

								1.00 47.86	8
	133 0	ست.	(R A	17	31.332	41.772	40.726		
ATOM		_			30.730	39.964	39.534	1.00 54.38	7
ATOM	134 N	l Pi	RO A	18			39.190	1.00 54.21	6
	135 C	D P	RO A	18	30.548	38.545		1.00 56.43	6
MOTA		_		18	30.243	40.809	38.449	1.00 56.43	
ATOM	136 C		RO A			39.792	37.496	1.00 56.84	6
ATOM	137 C	:B PI	RO A	18	29.601			1.00 56.46	6
			RO A	18	29.260	38.613	38.426		
ATOM -					29.273	41.891	38.932	1.00 58.74	6
ATOM	139	. P	RO A	18	23.213		40.066	1.00 55.72	8 .
	140) P	RO A	18	28.791	41.861			7
MOTA				19	29.017	42.851	38.052	1.00 62.10	
MOŢA	141 1		YS A		28.127	43.973	38.314	1.00 64.85	6
MOTA	142 (CA L	YS A	19				1.00 69.74	6
			YS A	19	27.972	44.781	37.022		
MOTA	_			19	28.008	43.925	35.740	1.00 74.99	6
MOTA	144 (YS A			42.881	35.668-	1.00 78.18	6
ATOM	145 (CD L	YS A	19 ·	26.895		-	1.00 80.24	6
			YS A	19	26.981	42.010	34.420	1.00 80.24	
ATOM					25.867	41.010	34.361	1.00 81.13	7
MOTA	147	NZ L	YS A	19			38.869	1.00 64.77	6 -
	148	c L	YS A	19	26.750	43.619		1.00 04.77	8
ATOM	-	_	YS A	19	26.414	43.961	40.001	1.00 66.50	
MOTA	_				25.957	42.933	38.062	1.00 63.75	7
MOTA	150	N A	SN A	20				1.00 62.96	6
		CA A	SN A	20	24.612	42.556	38.439	1.00 02.50	
MOTA				20	23.870	42.031	37.208	1.00 67.42	6
ATOM	152		SN A		22.3.3	41.833	37.459	1.00 72.29	6
MOTA	153	CG A	SN A	20	22.392			1.00 75.25	8
			SN A	20	21.666	42.785	37.772		
MOTA					21.931	40.594	37.322	1.00 74.38	7
ATOM	155	ND2 A	'SN Y	20			39.547	1.00 61.30	6
	156	C A	SN A	20	24.602	41.512			8
MOTA		-	SN A	20	23.629	40.773	39.698	1.00 61.49	
MOTA					25.681	41.444	40.321	1.00 57.30	7
ATOM	158	N F	IIS A	21	23.001		41.418	1.00 54.68	6
		CA F	IIS A	21	25.755	40.480		1.00 54.00	6
MOTA			HIS A	21	27.071	39.700	41.373	1.00 52.53	
ATOM					27.058		42.195	1.00 49.39	6
MOTA			HIS A	.21			43.503	1.00 49.39	6
	162	CD2 I	HIS A	21	27.336	38.236			7
MOTA	-		HIS A	21	26.664	37.229	41.686	1.00 48.27	
MOTA					26.704		42.643	1.00 48.16	6
MOTA	164	CE1	A ZIE	21				1.00 47.33	7
	165	NE2	HIS A	21	27.108			1.50 47.55	6
MOTA			HIS A	21	25.664	41.215	42.760	1.00 52.89	
MOTA	166	-			26.295		42.947	1.00 52.52	8
ATOM	167	0 :	HIS A	21				1.00 50.81	7
	168	N	PRO A	22	24.880				
MOTA		-		22	24.076	39.444	43.661	1.00 48.50	6
MOTA	169		PRO A		24 734			1.00 48.02	6
MOTA	170	CA	PRO A	22	24.734			1.00 47.45	6
	171	CB	PRO A	.22	23.860	40.308		1.00 47.45	
ATOM				22	22.990	39.754	44.667	1.00 47.76	6
ATOM	172		PRO A		26.074			1.00 46.48	6
ATOM	173	С	PRO A	22		-		1.00 45.69	8
	174	С	PRO A	22	26.164	42.405		1.00 45.05	7
ATOM				23	27.10	7 40.816	45.318	1.00 44.97	
ATOM	175							1.00 41.31	6
ATOM	176	CA	LEU A	23	28.44			1.00 39.22	6
	177	CB	LEU A	23	29.07				•
ATOM				23	28.26	38.561	46.953	1.00 37.71	6
ATOM	178		LEU A		20.20			1.00 35.07	6
ATOM	179	CD7	LEU A	23	29.07				6
	180	CDI	LEU A	23	27.89				
ATOM					29.33		45.003	1.00 40.14	6
ATOM	181	С	LEU A		20.55				8
ATOM	182	0	LEU A	23	30.55				7
		N	LYS A	_	28.70	6 42.70			
ATOM	183				29.43		3 43.398	1.00 42.88	6
ATOM	184	CA	LYS A			_			6
	185	CB	LYS A	24	28.48				6
ATOM			LYS A		28.94	9 45.36			0
ATOM	186	CG			28.24	-		1.00 44.47	6
ATOM	187	CD	LYS A						6
	188	CE	LYS A		26.73	2 46.49			7
ATCM					25.98		7 42.362	1.00 39.79	
ATOM	189	NZ	LYS A						6
ATOM	190	С	LYS A	24	30.03				8
			LYS A		31.02	7 45.33	2 43.817		~ ~
ATOM	191	0			29.43			3 1.00 42.27	7
ATOM	192	N	ILE P	25					6
	193	CA	ILE P	25	29.87				
atcm					28.76		7 47.30	1.00 37.72	
Mota	194	CB	ILE A						6
ATOM	195	CG2	ILE A	25	27.53				
	196	CG1	ILE A		28.41				
atom					27.30		8 49.15	1 1.00 31.74	_
ATOM	197	CD1	ILE A						6
TOM	198	С	ILE A	a 25	31.07	8 45.62			

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		31.419 44.441 47.198 1.00 38.90 8
MOTA	199 O ILE A 25	31.762 46.616 47.709 1.00 40.18 7
MOTA	200 N PRO A 26	31.702 30.020 17 522 3 00 40 58 6
ATOM	201 CD PRO A 26	31.323 90.032 1 6
ATOM	202 CA PRO A 26	34.939 40.437 20.00 27 14 6
	203 CB PRO A 26	33.478 47.860 46.060 2.00 38 77 6
ATOM	204 CG PRO A 26	32.940 48.537 47.433 1.00 37.33 6
MOTA	205 C PRO A 26	32.433 45.903 45.002 200
ATOM	203 6 300	31.416 46.372 30.412 1.00 31.
MOTA	200 0 110 1	33 134 44.930 50.45200 5010
MOTA	207 1	30 685 44.309 31./11 4.00 3.00
atcm	200 0	32.116 42.952 51.455 1.00 35.29 0
ATOM	200 00 1210	31 047 42.956 50.355 1.00 32.69 6
MOTA	210 00 1111	30 507 41.573 49.956 1.00 33.07
ATOM	211 CD 1410 11	29.757 40.909 51.021 1.00 36.16
MOTA	212 112 1110	30 293 40.132 51.959 1.00 37.11
MOTA	213 03 1110 11	31.604 39.903 51.976 1.00 34.42 7
MOTA	224	29 516 39.597 52.896 1.00 33.67
MOTA	213 11110	33.813 44.329 52.732 1.00 36.33
MOTA	210 0	33 881 45.188 53.610 1.00 35.// 8
MOTA	24, 4	34 703 43.351 52.607 1.00 34.93
MOTA	210 11	35 810 43.230 53.537 1.00 34.00 6
MOTA	217 011 11- 11	36 633 41 954 53 252 1.00 38 21
MOTA	220 CB VAL A 28	37 574 41.652 54.424 1.00 33.59 6
ATOM	221 CG1 VAL A 28	35 696 40 790 52.992 1.00 37.05 6
MOTA	222 CG2 VAL A 28	36 712 44.454 53.423 1.00 31.91 0
MOTA	223 C VAL A 28	37 216 44.959 54.427 1.00 31.45 8
ATOM	224 O VAL A 28	36 908 44.936 52.199 1.00 33.12
MOTA	225 N SER A 29	7751 46 111 51.967 1.00 32.03 0
ATOM	226 CA SER A 29	38 205 46.181 50.499 1.00 31.77
MOTA	227 CB SER A 29	37 113 46.223 49.600 1.00 30.80 8
MOTA	228 OG SER A 29	37 003 47.380 52.353 1.00 30.16 6
MOTA	229 C SER A 29	37 604 48 404 52.650 1.00 28.70 8
MOTA	230 O SER A 29	35 682 47.310 52.352 1.00 32.43
ATOM	231 N LEU A 30	24 000 48:465 52.745 1.00 34.55
MOTA	232 CA LEU A 30	33 463 48.358 52.221 1.00 36.44 6
MOTA	233 CB LEU A 30	32 508 49.513 52.560 1.00 36.79 6
MOTA	234 CG LEU A 30	32.070 49.446 54.012 1.00 36.73 6
MOTA	233	33,202 50.840 52.256 1.00 37.84 6
MOTA	250 052	34.902 48.527 54.262 1.00 34.69
MOTA	25, 0 == .	35.033 49.601 54.841 1.00 37.30
MOTA	230 0	34.761 47.366 54.897 1.00 34.07
ATOM		34.743 47.276 56.350 1.00 34.83 6
ATOM	240 CA LEU A 31 241 CB LEU A 31	34.768 45.808 56.751 2.00 36.04
ATOM	242 CG LEU A 31	34 459 45.4/1 50.201 1.00
ATOM	243 CD1 LEU A 31	34.841 44.027 38.332 2.00 35 86 6
ATOM	244 CD2 LEU A 31	33.220 30.26 43 6
ATOM	245 C LEU A 31	33.370 37.22 3 300 35 97 8
ATOM	246 O LEU A 31	35.855 49.033 37.344 21.00 37.76 7
atom atom	247 N LEU A 32	37.157 47.426 30.033 1.00 36 82 6
ATOM	248 CA LEU A 32	38.420 40.013 37.00 1 00 36 37 6
ATOM	249 CB LEU A 32	39.611 47.310 30.39 11 6
ATOM	250 CG LEU A 32	40.030 45.000 55.015 1.00 35.16 6
ATOM	251 CD1 LEU A 32	41.11/ 45.420 55.015 1 00 37 73 6
ATOM	252 CD2 LEU A 32	40.538 45.630 56.220 1 00 34 84 6
ATOM	253 C LEU A 32	38.500 49.526 57 644 1.00 36.58 8
MOTA	254 O LEU A 32	38.846 30.327 55 545 1.00 31.37 7
ATOM	255 N ARG A 33	38.184 49.077
ATOM	256 CA ARG A 33	38.24/ 51.2/0 55.250 1 00 31 52 6
ATOM	257 CB ARG A 33	37.927 51.398 33.602 1.00 35 88 6
ATOM	258 CG ARG A 33	38.481 52.652 53.643 1.00 43.44 6
ATOM	259 CD ARG A 33	38.107 52.752 51.501 1.00 48.37 7
ATOM	260 NE ARG A 33	38.321 31.303 40.407 1.00 52.27 6
ATOM	261 CZ ARG A 33	38.348 51.469 48.823 1.00 51.75 7
ATCM	262 NH1 ARG A 33	37.771 52.459 48 858 1.00 51.08 7
ATCM		38.739 50.500 55.000 1.00 32.32 6
2000	264 C ARG A 33	37.274 52.102 55.989 1.00 32.32

Figure 17-5

						27	471	53.299	56.196	1.00 2	9.23	8
MOTA	265	Ο .	ARG A	33			471	51.445	56.484	1.00 3		7
MOTA	266	N	PHE A	34			.231 .216	52.096	57.304	1.00 3		6
MOTA	267	CA	PHE A	34		_	952	51.232	57.359		1.22	·6
MOTA	268	CB	PHE A	34 34			. 838	51.825	58.183		8.74	6
MOTA	269	CG	PHE A	34			.085	52.888	57.700	1.00 2		6
MOTA	270		PHE A			_	. 551	51.322	59.456		8.09	6
MOTA	271	CD2 CE1	PHE A				.061	53.441	58.472	1.00 2		6
MOTA	272 273	CE2	PHE A				. 524	51.873	60.235	1.00 2		6
MOTA	274	CZ	PHE A				.781	52.929	59.741		1.39	6
MOTA MOTA	275	c	PHE A				.734	52.319	58.719	1.00		5 8
MOTA	276	ō	PHE A			35	. 635	53.425	59.258		35.49 34.52	7
ATOM	277	N	LYS A				.276	51.264	59.323	1.00		6
ATOM	278	CA	LYS A			-	. 805	51.360	60.678 61.235	1.00		6
MOTA	279	CB	LYS A			_	.118	49.977 49.074	61.343		40.81	6
MOTA	280	CG	LYS A				.912	47.801	62.090	1.00		6
ATOM	281	CD	LYS A				.246 .347	47.029	61.402	1.00		6
ATOM	282	CE	LYS A				.601	47.823	61.276	1.00		7
MOTA	283	NZ	LYS A				.054	52.222	60.735	1.00	36.61	6
MOTA	284	С 0	LYS A				.352	52.824	61.766		36.78	8
ATOM	285 286	N	ASP A				.794	52.267	59.635	_	36.27	7
ATÓM .	287	CA	ASP A			-	.980	53.090	59.592		39.71	6
MOTA MOTA	288	CB	ASP A	_			.679	52.937	58.239		44.78	6
MOTA	289	CG	ASP A				.863	53.892	58.075		47.10	6 8
ATOM	290		ASP A	36			.803	53.352	58.906		44.02 48.43	8
ATOM	291	OD2	ASP A	36			. 943	54.682	57.106 59.789		39.99	6
ATOM	292	С	ASP A		•		.508	54.530	60.536	1.00	40.76	8
ATOM	293	0	ASP A				.023	55.258 54.919	59.007		38.59	7
MOTA	294	N	ALA A				.506	56.258	59.066		37.14	6
MOTA	295	CA	ALA A			_	. 857	56.402	58.000	1.00	35.85	6
MOTA	296	CB	ALA A				7.354	56.549	60.446	1.00	38.34	6
MOTA	297	C	ALA A			_	7.391	57.687	60.928	1.00	37.32	8
MOTA	298 299	И О	MET I				5.809	55.518	61.079	1.00	36.19	7
MOTA	300	CA	MET				5.213	55.674		1.00	36.80	6
MOTA MOTA	301	CB	MET			3 5	5.141	54.598		1.00	37.38	6 6
ATOM	302	CG	MET .				3.938	54.717	61.673		37.60 33.61	16
MOTA	303	SD	MET	8 A			2.887	56.165			35.60	6
ATOM .	304	CE	MET .				2.398	55.824 55.582			35.84	6
ATOM	305	С		A 38		-	7.262 5.937	55.688			34.89	8
MOTA	306	0	MET .			_	B.518	55.400			33.83	7
MOTA	307	И	ASN				9.626	55.264			34.94	6
ATOM	308	CA	NSA NSA				9.897	56.582	64.775	1.00	32.48	6
MOTA	309 310	CB CG	ASN				0.213	57.717	63.825		32.34	6
ATOM	311		LASN		•	4	1.128	57.521	63.009		31.85	8
ATOM ATOM	312		2 ASN			3	9.455	58.800			30.92	7 6
ATOM	313	С	ASN			_	9.253				36.87 36.60	8
ATOM	314	0	ASN				9.403				37.48	7
MOTA	315	N	LEU				8.752				39.66	6
ATOM	316	CA	LEU				8.341				41.35	6
ATOM	317	CB	LEU				6.863				42.69	6
ATOM	. 318	CG	LEU				5.858 4.448		-		45.05	6
MOTA	319		1 LEU				5.951			_	39.44	6
MOTA	320		2 LEU				9.184				39.79	6
MOTA	321	C	LEU	_			8.804		5 65.43	4 1.00	36.88	
ATOM	322	0	LEU ILE			4	0.337		9 64.42		40.50	?
MOTA	323 324	N CA					1.237		0 64.06		41.39	
ATOM	324	CB					0.780	49.14	1 62.72		39.24	
ATOM	325		2 ILE			4	1.017	7 50.10			36.97	
atom Atom	327		1 ILE			4	1.513	3 47.82			36.76	
ATOM	328		1 ILE			4	1.085	46.71			35.59 44.37	
ATOM	329		ILE	A 41		4	2.684	50.29	5 63.91 8 63.27		0 46.01	
ATOM	330		ILE	A 41		4	2.92	7 51,32	03.21	, 1.00	0.01	
			•	•	•							

ATOM ATOM ATOM ATOM ATOM ATOM ATOM	331 N ASP A 42 332 CA ASP A 42 333 CB ASP A 42 334 CG ASP A 42 335 OD1 ASP A 42 336 OD2 ASP A 42 337 C ASP A 42	43.646 49.582 64.497 1.00 45.19 7 45.049 49.982 64.372 1.00 45.62 6 45.716 50.090 65.742 1.00 45.17 6 44.966 51.005 66.682 1.00 44.43 6 44.731 52.177 66.322 1.00 39.84 8 44.612 50.546 67.787 1.00 48.50 8 45.750 48.915 63.551 1.00 48.47 6 45.316 47.757 63.547 1.00 49.85 8
ATOM ATOM	338 O ASP A 42 339 N GLU A 43	46.830 49.288 62.864 1.00 49.24 7
MOTA	340 CA GLU A 43 341 CB GLU A 43	48.820 48.956 61.431 1.00 49.90 6
MOTA MOTA	342 CG GLU A 43	48.544 50.029 60.376 2.00 59.56 6
MOTA	343 CD GLU A 43 344 OE1 GLU A 43	50.517 49.721 59.061 1.00 65.05 8
ATOM ATOM	345 OE2 GLU A 43	50.095 51.750 59.772 1.00 59.73 6
MOTA	346 C GLU A 43	47.813 45.943 62.149 1.00 49.18 8
ATOM	347 O GLUA 43 348 N LYSA 44	48.324 47.118 63.992 1.00 49.90 6
ATOM ATOM	349 CA LYS à 44	48.730 45.448 66.093 1.00 52.46 6
MOTA	350 CB LYS A 44 351 CG LYS A 44	50.448 47.421 65.899 1.00 55.75 6
MOTA MOTA	352 CD LYS A 44	51.167 47.749 67.201 1.00 58.48 6
ATOM	353 CE LYS A 44 354 NZ LYS A 44	53, 122 48.968 68.176 1.00 58.95 7
ATOM	354 NZ LYS A 44 355 C LYS A 44	47.638 44.897 64.994 1.00 47.03
MOTA MOTA	356 O LYS A 44	46 379 45.298 64.854 1.00 45.25 7
MOTA	357 N GLU A 45 358 CA GLU A 45	45.268 44.374 65.046 1.00 43.09 6
MOTA MOTA	359 CB GLU A 45	44.024 45.143 65.314 1.00 36.83 6
ATOM-	360 CG GLU A 45 361 CD GLU A 45	43.003 46.741 67.204 1.00 38.92 6
MOTA	361 CD GLU A 45 362 OE1 GLU A 45	42.707 47.701 66.447 1.00 37.30 8
MOTA MOTA	363 OE2 GLU A 45	42.368 40.479 60.726 1.00 43.04 6
MOTA	364 C GLU A 45 365 O GLU A 45	44.480 42.523 63.699 1.00 45.03 8
ATOM ATOM	365 O GLUA 45 366 N LEUA 46	45.282 44.341 62.632 1.00 37.16 6
MOTA	367 CA LEU A 46	44 910 44.990 60.331 1.00 37.86 6
ATOM	368 CB LEU A 46 369 CG LEU A 46	44.822 44.658 58.845 1.00 39.22
MOTA MOTA	370 CD1 LEU A 46	43.655 43.726 58.080 1.00 41.62 6
MOTA	371 CD2 LEU A 46 372 C LEU A 46	46.090 42.860 60.774 1.00 36.54 6
MOTA MOTA	372 C LEU A 46 373 O LEU A 46	47.275 43.192 60.698 2.00 33.49 7
MOTA	374 N ILE A 47	46.540 40.657 59.844 1.00 30.51 6
MOTA	375 CA ILE A 47 376 CB ILE A 47	46.333 39.253 60.491 1.00 34.31 6
MOTA MOTA	377 CG2 ILE A 47	47.540 30.228 62.010 1.00 32.65 6
MOTA	378 CG1 ILE A 47 379 CD1 ILE A 47	47.858 39.846 62.448 1.00 38.97
MOTA MOTA	380 C ILE A 47	46.196 40.370 58.302 1.00 26.11 8
MOTA	381 O ILE A 47	45.037 40.372 57.504 1.00 27.77 7
ATOM	382 N LYS A 48 383 CA LYS A 48	46.985 40.713 56.056 1.00 23.80 6
MOTA MOTA	384 CB LYS A 48	48.258 41.087 53.500 1.00 24.90 6
MOTA	385 CG LYS A 48 386 CD LYS A 48	49.389 41.352 53.091 1.00 26.39 6
ATOM ATOM	360 CD 222 48	49.233 41.864 51.679 1.00 27.72
MOTA	388 NZ LYS A 48	46.595 39.299 55.654 1.00 26.32 6
MOTA	389 C LYS A 40	47.072 38.325 56.235 1.00 27.83 7
ATCM ATOM	391 N SER A 49	45.735 39.183 54.053 1.00 27.36 6
ATOM	392 CA SER A 49	43.952 37.979 53.479 1.00 25.04 8
ATOM	394 OG SER A 49	42.911 38.329 54.373 1.00 28.97 6
ATOM ATOM	395 C SER A 49	46.322 37.211 53.293 1.00 28.97 47.095 37.885 52.612 1.00 31.89 8
ATOM		•

· mow	397 N ARG A 50		33.0.2		1.00 29.71	7
ATOM ATOM	398 CA ARG A 50				1.00 25.78	6 6
ATOM	399 CB ARG A 50				1.00 26.20 1.00 22.71	6
ATOM	400 CG ARG A 50			_	1.00 22.71	6
ATOM	401 CD ARG A 50				1.00 19.20	7
ATOM.	402 NE ARG A 50			55.762 55.345	1.00 16.85	6
ATOM	403 CZ ARG A 50	47.708	• • • • •	54.055	1.00 17.77	7 .
ATOM	404 NH1 ARG A 50	47.430		56.223	1.00 14.56	7
ATOM	405 NH2 ARG A 50	47.334		51.723	1.00 23.30	6
MOTA	406 C ARG A 50	46.370 45.319		52.206	1.00 16.92	8
MOTA	407 O ARG A 50	46.823	33.628	50.534	1.00 21.06	7
MOTA	408 N PRO A 51	48.021	34.038	49.789	1.00 20.50	6
MOTA	405 00 000	46.086	32.633	49.761	1.00 22.69	6
ATOM	410 CA PRO A 51 411 CB PRO A 51	46.862	32.592	48.451	1.00 21.57	6
MOTA	412 CG PRO A 51	47.503	33.984	48.392	1.00 20.57	6 -
atom atom	413 C PRO A 51	46.153	31.300	50.498	1.00 26.71 1.00 31.32	6 8
MOTA	414 O PRO A 51	47.071	31.066	51.293	1.00 31.32	7
ATOM	415 N ALA A 52	45.176	30.435	50.250 50.876	1.00 25.76	6
ATOM	416 CA ALA A 52	45.151	29.121 28.585	50.870	1.00 21.42	6
ATOM	417 CB ALA A 52	43.720	28.227	50.000	1.00 26.31	6
ATOM	418 C ALA A 52	46.013 45.878	28.239	48.780	1.00 30.31	8
MOTA	419 O ALA A 52	46.909	27.464	50.608	1.00 25.80	7
MOTA	420 N THR A 53 421 CA THR A 53	47.759	26.578	49.831	1.00 27.52	6
ATOM		48.845	25.975	50.717	1.00 26.27	6
ATOM	422 CB THR A 53 423 OG1 THR A 53	48.255	25.053	51.641	1.00 29.51	8
MOTA	424 CG2 THR A 53	49.522	27.076	51.502	1.00 24.66	6 6
ATOM ATOM	425 C THR A 53	46.908	25.462	49.209	1.00 26.58 1.00 21.98	8
MOTA	426 O THR A 53	45.778	25.228	49.634	1.00 21.33	7
MOTA	427 N LYS A 54	47.455	24.782	48.203 47.507	1.00 32.62	6
ATOM	428 CA LYS A 54	46.739	23.713 23.151	46.370	1.00 31.99	6
ATOM	429 CB LYS A 54	47.601 46.985	21.967	45.629	1.00 36.62	6
MOTA	430 60 310 11	45.733	22.352	44.866	1.00 40.69	6
ATOM	431 CD LYS A 54	46.058	23.173	43.625	1.0046.44	6
MOTA	402 00 000	46.844	22.393	42.614	1.00 50.68	7
ATOM	433 NZ LYS A 54 434 C LYS A 54	46.348	22.595	48.465	1.00 36.00	6
MOTA MOTA	435 O LYS A 54	45.277	21.991	48.330	1.00 34.77 1.00 37.91	8 7
MOTA	436 N GLU A 55	47.216	22.336	49.443	1.00 37.91	6
ATOM	437 CA GLU A 55	46.979	21.290	50.433 51.281	1.00 40.29	6
ATOM	438 CB GLU A 55	48.240	21.100 19.887	52.195	1.00 47.95	6
MOTA	439 CG GLU A 55	48.216 49.552	19.654	52.891	1.00 51.01	6
MOTA	440 CD GLU A 55	49.659	18.688	53:679	1.00 52.65	8
ATOM	441 OE1 GLU A 55	50,497	20.437	52.646	1.00 51.27	8
ATOM	772 022 027	45.771	21.609	51.322	1.00 34.10	6
ATOM	443 C GLU A 55 444 O GLU A 55	44.892	20.769	51.496	1.00 33.08	8
ATOM	445 N GLU A 56	45.723	22.827	51.866		7 6
ATOM ATOM	446 CA GLU A 56	44.621	23.256	52.733		6
ATOM	447 CB GLU A 56	44.824		53.177 53.758		6
ATOM	448 CG GLU A 56	46.204				6
ATOM	449 CD GLU A 56	46.421		53.398		8
MOTA	450 OE1 GLU A 56	46.072 46.969				8
MOTA	451 OE2 GLU A 56	43.264			1.00 29.63	. 6
ATOM	452 C GLU A 56	42.299			1.00 29.90	8
ATCM	453 0 GLU A 56 454 N LEU A 57	43.188		50.780	1.00 26.76	7
ATOM	~ · · · · · · · · · · · · · · · · · · ·	41.944		50.020	1.00 25.29	6
ATOM	100 01		24.103	48.629		6 5
ATOM	456 CB LEU A 57 457 CG LEU A 57	42.402	25.612			6
atom Atom	458 CD1 LEU A 57	42.654				6
ATOM	459 CD2 LEU A 57	41.211				6
ATOM	460 C LEU A 57					8
ATOM	461 O LEU A 5					7
ATOM	462 N LEU A 58	42.44	8 ZI.14.	+		
		•				

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		42.194 19.718 49.526 1.00 22.44 6
ATOM	463 CA LEU A 58 464 CB LEU A 58	43.434 19.027 48.965 1.00 21.02 6
ATOM ATOM	465 CG LEU A 58	43.838 19.471 47.330 1.00 20 35 6
ATOM	466 CD1 LEU A 58	43.212 20.000
ATOM	467 CD2 LEU A 58	42.755 19.033 46.587 1.00 23.28 6 41.797 19.054 50.835 1.00 25.20 6
ATOM	468 C LEU A 58	41.456 17.867 50.854 1.00 26.55 8
ATOM	469 O LEU A 58 470 N LEU A 59	41.858 19.794 51.938 1.00 25.44 7
ATOM	470 N LEU A 59 471 CA LEU A 59	41.446 19.212 53.211 1.00 25.24
ATOM ATOM	472 CB LEU A 59	41.559 20.229 54.350 1.00 24.66 6
ATOM	473 CG LEU A 59	42.956 20.490 34.322 2100 24 76 6
MOTA	474 CD1 LEU A 59	43 492 19.184 55.474 1.00 26.99 6
MOTA	475 CD2 LEU A 59 476 C LEU A 59	39 991 18.807 53.045 1.00 24.22 6
MOTA	476 C LEU A 59 477 O LEU A 59	39.548 17.794 53.581 1.00 21.18 8
MOTA MOTA	478 N PHE A 60	39.270 19.613 52.270 2100 25 00 6
ATOM	479 CA PHE A 60	37.859 19.403 52.011 1.00 25.00 6 37.054 20.560 52.605 1.00 26.34 6
MOTA	480 CB PHE A 60 481 CG PHE A 60	35 600 20.555 52.223 1.00 29.37 6
MOTA	481 CG PHE A 60 482 CD1 PHE A 60	34.811 19.422 52.427 1.00 27.57 6
MOTA MOTA	483 CD2 PHE A 60	35.015 21.892 31.002 1.00 37.00
ATOM	484 CE1 PHE A 60	33.466 19.419 32.07
MOTA	485 CE2 PHE A 60	32 893 20.559 51.513 1.00 29.48 6
MOTA	486 CZ PHE A 60 487 C PHE A 60	37.506 19.214 50.538 1.00 27.78 6
MOTA MOTA	488 O PHE A 60	37.022 18.143 50.158 1.00 31.57 8 37.022 18.20 49.696 1.00 26.76 7
ATOM	489 N HIS A 61	37.734 20.220 49.000 1.00 20.00
ATOM	490 CA HIS A 61	37.376 20.030 13.561 1.00 27.76 6
MOTA	491 CB HIS A 61 492 CG HIS A 61	36.385 22.396 48.117 1.00 30.34 6
MOTA MOTA	492 CG HIS A 61 493 CD2 HIS A 61	35.056 22.549 47.907 1.00 33.74 6
MOTA	494 ND1 HIS A 61	36.750 23.401 40.507 1.00 32.07 6
ATOM	495 CE1 HIS A 61	35.691 24.133 43.644 1.00 34.10 7
MOTA	496 NE2 HIS A 61 497 C HIS A 61	38 278 19.056 47.539 1.00 28.38 6
MOTA	497 C HIS A 61 498 O HIS A 61	39.287 18.604 48.072 1.00 25.81 8
MOTA ATOM	499 N THR A 62	37.895 18.705 46.310 1.00 34.68 6
ATOM	500 CA THR A 62	38.638 17.743 13.778 1.00 34.36 6
ATOM	501 CB THR A 62 502 OG1 THR A 62	36.942 17.415 43.778 1.00 34.81 8
MOTA	502 OG1 THR A 62 503 CG2 THR A 62	36.759 16.112 45.778 1.00 34.33 6
MOTA MOTA	504 C THR A 62	39.485 18.454 44.400 1.00 30 85 8
ATOM	505 O THR A 62	40 700 17 958 44.166 1.00 37.38 7
ATOM	506 N GLU A 63 507 CA GLU A 63	41 587 18.555 43.165 1.00 40.68 6
MOTA MOTA	507 CA GLU A 63 508 CB GLU A 63	42.759 17.626 42.840 1.00 43.75 6
MOTA	509 CG GLU A 63	43.719 17.550 1 00 55 36 6
MOTA	510 CD GLU A 63	45.028 10.700 13.3808 1.00 53.03 8
MOTA	511 OE1 GLU A 63 512 OE2 GLU A 63	45.285 15.585 43.883 1.00 59.56 8
ATOM	512 OE2 GLU A 63 513 C GLU A 63	40.894 18.939 41.860 1.00 39.20
MOTA MOTA	514 O GLU A 63	40.7/1 20.110 11.100 1 00 37 07 7
ATOM	515 N ASP A 64	40.453 17.346 41.125 1.00 36.98 6
ATOM	516 CA ASP A 64 517 CB ASP A 64	39.762 17.000 39.426 1.00 42.19 6
MOTA	517 CB ASP A 64 518 CG ASP A 64	38 037 16,501 40.533 1.00 47.66 6
ATOM ATOM	519 OD1 ASP A 64	37.039 17.193 40.851 1.00 47.93
atom atom	520 OD2 ASP A 64	38.325 13.413 32.025 1 00 22 40 6
ATOM	521 C ASP A 64	38.908 19.400 33.50 1.00 33.64 8
ATCM	522 O ASP A 64 523 N TYR A 65	38 156 19.641 40.990 1.00 30.57 7
ATOM	523 N TYR A 65 524 CA TYR A 65	37.286 20.806 41.157 1.00 29.65
ATOM ATOM	525 CB TYR A 65	36.300 20.560 42.316 1.00 30.16 6
ATOM	526 CG TYR A 65	35.557 21.750 41.944 1.00 30.25 6
ATOM	527 CD1 TYR A 65	34.791 22.572 41.944 1.00 36.25 34.126 23.715 42.399 1.00 28.36 6
ATOM	528 CEL TYR A 65	•
,		

											1.00 28.28	6
ATOM	529	CD2	TYR .	Α	65	35.	638		181	44.150		
		CE2	TYR		65	34.	980	23.	.320 '	44.617	1.00 26.96	6
MOTA	530						227		.082	43.740	1.00 29.79	6
ATOM	531	CZ	TYR .		65					44.207	1.00 28.53	8
MOTA	532	ОН	TYR .	A	65		568		. 201	44.207	1.00 29.15	6
MOTA	533	С	TYR .	Α	65	38.	.118	22	.061	41.418		
	-		TYR		65	37.	. 860	23	.128	40.857	1.00 30.45	8
MOTA	534	0					122		.926	42.270	1.00 26.61	7
MOTA	535	11	ILE		66					42.597	1.00 26.35	6
ATOM	536	CA	ILE	Α	66	39	. 986		.041	42.337		6
	537	CB	ILE	Α	66	40	.998	22	. 652	43.687	1.00 26.25	
MOTA					66	42	. 009	23	.753	43.869	1.00 21.20	6
MOTA	538	CG2	ILE				. 264		.341	44.992	1.00 29.30	6
MOTA	. 539	CG1	ILE	A	66						1.00 30.52	6
ATOM	540	CD1	ILE	Α	66		. 478		.517	45.555		
	541	C	ILE	Δ	66	40	.761	23	.504	41.381	1.00 28.07	6
MOTA					66		.039	24	.696	41.225	1.00 31.26	8
MOTA	542	0	ILE						.559	40.521	1.00 28.47	7
MOTA	543	N	ASN	A	67		.125				1.00 30.15	6
ATOM	544	CA	ASN	Α	67	41	.902	22	.898	39.337		
	545	СВ	ASN		67	42	. 563	21	.656	38.726	1.00 34.20	6
MOTA					67	43	.712	21	.118	39.578	1.00 38.78	6
MOTA	546	CG	ASN						.841	39.878	1.00 43.34	8
MOTA	547	OD1	ASN	Α	67		. 674			39.956	1.00 37.14	7
ATOM	548	ND2	ASN	Α	67		.626		.845			6
	549	С	ASN	Α	67	41	.020	23	.554	38.314	1.00 28.41	
ATOM			ASN		67	41	.494	24	.354	37.499	1.00 28.05	8
MOTA	550	0					.733		.221	38.361	1.00 25.32	7
MOTA	551	N	THR	Α	68					37.416	1.00 21.75	6
ATOM	552	CA	THR	Α	68		.787		.791			6
	553	СВ	THR	Α	68	37	.438	23	.111	37.500	1.00 16.99	
MOTA					68	37	.620	21	.695	37.371	1.00 16.99	8
MOTA	554	OG1					.549		.591	36.359	1.00 17.59	6
ATOM	555	CG2			68				.263	37.732	1.00 22.13	6
ATOM	556	С	THR	Α	68		. 633			_	1.00 21.97	8
ATOM	557	0	THR	Α	68	38	.529		880.	36.830		
	558	N	LEU		69	38	.645	25	5.582	39.023	1.00 22.32	7 .
MOTA							.535		5.956	39.482	1.00 23.97	6.
MOTA	559	CA	LEU		69				5.982	41.000	1.00 24.99	6
MOTA	560	CB	LEU	Α	69		.376				1.00 29.08	6
ATOM	561	CG	LEU	Α	69	37	.023	26	5.527	41.548		
	562		LEU		69	37	.087	26	5.416	43.066	1.00 30.99	6
MOTA					69	_	.942	2.	7.528	41.120	1.00 28.69	6
MOTA	563	CD2	LEU						7.757	39.088	1.00 24.90	6
ATOM	564	C	LEU	Α	69		.772				1.00 25.04	8
ATOM -	565	0	LEU	Α	69	39	683		8.921	38.674		7
	566	N	MET	Δ	70	40).932	2.	7.128	39.218	1.00 24.67	
ATOM					70	45	2.183	2	7.794	38.897	1.00 23.62	6
ATOM	567	CA	MET				3.358		6.953	39.380	1.00 26.92	6
ATOM	568	CB	MET	A	70				6.751	40.884	1.00 26.69	6
MOTA	569	CG	MET	Α	70		3.418	_			1.00 30.71	16
ATOM	570	SD	MET	A	70	4.4	1.970		5.929	41.325		
		CE	MET		70	4 (5.137	2	7.077	40.642	1.00 23.20	6
MOTA	571				70		2.324	2	8.040	37.412	1.00 21.62	6
MOTA	572	C	MET						9.041	36.982	1.00 18.99	8
MOTA	573	0	MET	, A	70		2.903				1.00 23.93	7
MOTA	574	N	GLU	Α	71	4	1.769	2	7.122	3€ 632		
	575	CA	GLU		71	4	1.859	2	7.204	31.189	1.00 24.41	6
MOTA					71		1.681	2	5.814	3∢ 582	1.00 26.22	6
ATOM.	576	CB	GLU						5.695	33.167	1.00 31.75	6
MOTA	57 <i>7</i>	CG	GLU	IA	71		2.224				1.00 33.00	6
MOTA	578	CD	GLU	IA	71	4:	3.737		5.905	33.099	1.00 35.00	
	579		1 GLU		71	4	4.288	2	5.855	31.983	1.00 35.84	8
MOTA					71		4.377		6.116	34.154	1.00 30.13	8
MOTA	580		2 GLU						8.160		1.00 21.86	6
ATOM	581	С	GLU	JA	71		0.845				1.00 21.54	8
MOTA	582	0	GLU	JA	71	4	1.144		8.851		1.00 21.34	
		N	ALA		72	3	9.649	_ 2	8.197	35.169	1.00 19.22	7
MOTA	583						8.589		9.067		1.00 19.39	6
ATOM	584	CA			72				8.743		1.00 19.23	6
MOTA	585	CB	ALA	A A	72		7.298				1.00 26.72	6
ATOM	586		AL	A A	72		8.931		0.536			
				ÀÀ	72	3	8.711	. 3	1.383	34.016		8
MOTA	587				73		9.470		0.835		1.00 28.44	7
ATOM	588			JA								6
ATOM	589	CA	GL	JA	73		9.820	. :	32.202			6
	590			JA	73	4	0.157		32.282			
ATOM				JA	73		0.646		33.655	38.349		6
MOTA	591						0.840		3.806			6
ATOM	592			U A	73							8
ATOM	593		I GL				9.841		33.776			8
	594		2 GL			4	1.996		33.960	40.277	1.00 31.77	_
ATOM	221									-		

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	595 C GLU A 73 596 O GLU A 73 597 N ARG A 74 598 CA ARG A 74 599 CB ARG A 74 600 CG ARG A 74 601 CD ARG A 74 602 NE ARG A 74 603 CZ ARG A 74 604 NH1 ARG A 74 605 NH2 ARG A 74 606 C ARG A 74 607 O ARG A 75 610 CB CYS A 75 610 CB CYS A 75 611 SG CYS A 75 612 C CYS A 75 612 C CYS A 75 613 O CYS A 75 614 N GLN A 76 615 CA GLN A 76 616 CB GLN A 76 616 CB GLN A 76 617 CG GLN A 76 618 CD GLN A 76 619 OE1 GLN A 76 616 CB GLN A 76 617 CG GLN A 76 618 CD GLN A 76 619 OE1 GLN A 76 610 CB CYS A 77 620 C GLN A 77 621 C GLN A 76 621 C GLN A 76 622 C GLN A 77 625 CB CYS A 77 626 CG CYS A 77 627 C CYS A 77 628 O CYS A 77 629 N VAL A 78 630 CA VAL A 78 631 CB VAL A 78 632 CG1 VAL A 78 633 CG2 VAL A 78 634 C VAL A 78 635 O VAL A 78 636 N PRO A 79 637 CD PRO A 79 639 CB PRO A 79 630 CG PRO A 79 631 C PRO A 79 632 CG PRO A 79	40.946 32.840 35.615 1.00 31.83 6 40.859 34.024 35.259 1.00 33.52 8 41.992 32.071 35.309 1.00 31.45 7 43.128 32.611 34.557 1.00 30.65 6 44.405 31.826 34.874 1.00 32.12 6 44.514 30.467 34.205 1.00 31.42 6 45.702 29.714 34.754 1.00 30.73 6 46.041 28.561 33.933 1.00 34.18 7 46.646 28.634 32.748 1.00 35.55 6 46.989 29.818 32.232 1.00 29.64 7 42.894 32.623 33.051 1.00 28.61 6 43.431 33.465 32.338 1.00 24.38 8 42.107 31.673 32.566 1.00 28.32 7 41.796 31.619 31.148 1.00 32.42 6 41.687 30.167 30.682 1.00 32.91 6 40.489 32.382 30.956 1.00 33.10 6 40.489 32.598 29.834 1.00 30.74 8 38.691 33.575 32.144 1.00 30.74 8 38.691 33.575 32.144 1.00 33.20 6 38.986 34.962 31.578 1.00 34.42 7 38.691 33.575 32.144 1.00 33.20 6 38.986 34.962 31.578 1.00 32.99 6 38.089 36.064 32.094 1.00 39.46 6 38.703 37.846 33.460 1.00 41.47 6 38.574 35.755 34.426 1.00 39.46 6 38.703 37.846 33.606 1.00 42.22 7 37.561 32.920 31.358 1.00 34.19 8 37.522 31.598 31.370 1.00 31.47 6 38.479 29.071 30.044 1.00 33.94 6 33.479 29.071 30.044 1.00 33.94 16 34.750 29.216 31.018 1.00 30.78 7 35.851 29.795 31.498 1.00 31.97 6 36.335 29.503 32.590 1.00 33.94 16 34.750 29.216 31.018 1.00 30.78 7 35.851 29.795 31.498 1.00 30.75 6 31.881 27.030 32.293 1.00 29.80 6 33.851 29.503 32.590 1.00 33.94 6 33.851 29.503 32.590 1.00 33.94 6 33.851 29.503 32.590 1.00 35.15 8 34.750 29.216 31.018 1.00 30.78 7 35.985 26.335 33.025 1.00 28.23 6 32.29 29.503 32.590 1.00 35.56 8 34.750 29.216 31.018 1.00 30.78 7 35.985 26.335 33.025 1.00 28.23 6 32.29 29.503 32.526 1.00 30.66 6 33.851 29.503 32.526 1.00 30.66 6 33.851 29.503 32.526 1.00 30.67 6 33.851 29.503 32.526 1.00 29.80 6 34.668 23.776 30.881 1.00 24.49 6 35.985 24.724 31.261 1.00 24.49 6 36.622 24.218 32.434 1.00 22.69 6 34.668 23.776 30.881 1.00 30.13 6 34.796 23.136 29.727 1.00 33.44 7
	025 05 070	38 479 29.071 30.044 1.00 33.94 16
MOTA	020 50 010 1	35.851 29.795 31.498 1.00 31.97
	027 C 000	36.335 29.503 32.590 1.00 33.13
	020 0 0	34.750 29.216 31.018 1.00 30.76 7
	023 11 112 11	34.069 28.139 31.730 1.00 30 06 6
	631 CB VAL A 78	32.539 28.287 31.723 1.00 28.23 6
		32 130 39 503 32 526 1.00 30.67 6
ATOM	633 CGB WA	34.420 26.794 31.110 1.00 29.80
	334 0 112	33.851 26.422 30.077 2.00 28 55 7
	636 N PRO A 79	35.337 20.035 33.025 1.00 24.39 6
ATOM	037 CD 2110 11	35.793 24.724 31.261 1.00 28.89 6
	030 011 1110	36.622 24.218 32.434 2.00
	6 0 CG PRO A 79	37.233 23.776 30.881 1.00 30.13 6
MOTA	0.71 C 2.00	33.697 23.624 31.615 1.00 30.87 8
MOTA	643 N LYS A 80	34.796 23.136 29.727 1.00 33.44
MOTA MOTA	644 CA LYS A 80	33.758 22.216 29.305 1.00 45.18 6
MOTA	645 CB LYS A 80 646 CG LYS A 80	35.450 20.589 28.278 1.00 55.18 6
MOTA MOTA	646 CG LYS A 80 647 CD LYS A 80	35.788 19.827 27.000 1.00 00.00
MOTA	.648 CE LYS A 80	37.033 18.252 25.911 1.00 68.95 7
ATOM	649 NZ LYS A 80 650 C LYS A 80	33.411 21.267 30.443 1.00 36.56 8
MOTA MOTA	650 C LYS A 80 651 O LYS A 80	34.293 20.775 31.164 1.00 31.61
ATOM	652 N GLY A 81	32.112 21.055 31.648 1.00 29.81 6
ATOM	653 CA GLY A 81 654 C GLY A 81	32 065 1.00 28.30
ATOM	654 C GLY A 81 655 O GLY A 81	30.544 20.612 33.723 1.00 25.49 7
atom atom	656 N ALA A 82	32.380 21.830 33.210 1.00 26.72 6
MOTA	657 CA ALA A 82	33.485 23.674 34.406 1.00 22.64 6
ATOM	cro C 313 3 82	31.066 23.245 34.886 1.00 27.84
atom Atom	550 0 313 3 82	30.729 23.224 36.068 1.00 30.00
A10	•	•

				_	_			22 011	33.951	1.00 31.15	7
ATOM	661	N	ARG A	83	_	0.31		23.811		1.00 32.50	6
ATOM		CA	ARG A	83	2	9.07		24.462	34.345		
			ARG A	83	2	8.28	5	24.941	33.127	1.00 37.19	6
ATOM				83		7.43		26.189	33.408	1.00 42.23	6
ATOM	•		ARG A			6.48		26.020	34.585	1.00 48.02	6
ATOM	665	CD	ARG A	83					34.996	1.00 53.00	7
ATOM-	666	NE	ARG A	83		5.90		27.303		1.00 56.84	6
		CZ	ARG A	83		5.04		27.460	36.005		7 .
ATOM	• • •			83	2	4.64	9	26.413	36.724	1.00 53.05	
ATOM			ARG A	83		4.58		28.672	36.304	1.00 58.03	7
TOM						8.20		23.531	35.189	1.00 31.50	5
ATOM	-		ARG A	83		8.05		23.749	36.386	1.00 29.62	8
ATOM	671	0	ARG A	83					34.581	1.00 33.06	7
ATOM	672	N	GLU A	84		7.64		22.491	34.301	1.00 35.40	6
ATOM	673	CA	GLU A	84 .		26.81		21.568	35.343	1.00 37.35	6
	674	СВ	GLU A	84		26.11		20.562	34.417	1.00 37.33	
ATOM	675	ĊG	GLU A	84		26.98	39	19.684	33.496	1.00 40.01	6
ATOM			GLU A	84		27.55		20.418	32.267	1.00 44.49	6 -
MOTA	676	CD		84		27.92		19.723	31.292	1.00 41.12	8
ATOM	677		GLU A			27.63		21.671	32.270	1.00 41.01	8
ATOM	678	OE2	GLU A	84				20.823	36.417	1.00 35.42	6
MOTA	679	С	GLU A	84		27.63			37.594	1.00 34.66	8
ATOM	680	0	GLU A	84		27.24		20.816		1.00 35.21	7
ATOM	681	N	LYS A	85		28.72		20.226	36.002		6
	682	CA	LYS A	85		29.60	04	19.450	36.878	1.00 37.93	
ATOM	683	СЗ	LYS A	85		30.8	41	19.030	36.076	1.30 40.61	6
ATOM				85		31.7		17.977	36.706	1.00 42.63	6
ATOM	684	CG	LYS A			31.0		16.640	36.872	1.00 45.48	6
ATOM	685	CD	LYS A	85		32.0		15.523	37.078	1.00 45.60	6
ATOM	686	CE	LYS A	85				15.833	38.154	1.00 46.16	7
MCTA	687	ΝZ	LYS A	85		33.0			38.175	1.00 37.56	6
ATOM	688	С	LYS A	85		30.0		20.159		1.00 38.40	8
ATOM	689	0	LYS A	85		30.1		19.516	39.222		7
	690	N	TYR A	86		30.2	54	21.472	38.116		6
ATOM		CA	TYR A	86	•	30.6	71	22.216	39.307	1.00 32.67	
ATOM	691		TYR A	86		32.1		22.610	39.200	1.00 32.09	6
ATOM	692	CB				33.0		21.424	38.995	1.00 33.63	6
MOTA	693	CG	TYR A	86		33.1		20.393	39.932	1.00 32.12	6
ATOM	694	CD1		86				19.266	39.723	1.00 33.59	6
MOTA	695	CE1	TYR A	86		33.9			37.841	1.00 33.82	6
ATOM	696	CD2	TYR A	86		33.8		21.306		1.00 34.55	6
ATOM	697	CE2	TYR A	86		34.6	45	20.178	37.623	1.00 32.38	6
	698	CZ	TYR A	86		34.6	75	19.162	38.566		8
ATOM	699	ОН	TYR A	86		35.4	31	18.034	38.336	1.00 29.17	
ATOM			TYR A	86		29.8	31	23.455	39.597	1.00 30.21	6
MOTA	700	C		86		30.1	92	24.265	40.445	1.00 29.12	8
ATOM	701	0	TYR A			28.7		23.594	38.893	1.00 29.44	7
ATOM	702	N	ASN A	87		27.7		24.717	39.086	1.00 28.58	6
ATOM	703	CA	ASN A	87				24.618	40.470	1.00 25.63	6
ATOM	704	CB	asn a			27.1			40.596	1.00 28.05	6
ATOM	705	CG	ASN A	87		25.8		25.428		1.00 71.32	8
ATOM	706	OD1	L ASN A	87		25.2		25.477	41.672		7
	707	ND	2 ASN A	87		25.4	134	26.055	39.506	1.00 . 8.35	
ATOM	708	C	ASN A			28.9	580	26.015	38.963	1.00 10.35	6
ATOM						28.3		26.981	39.677	1.00 32.07	8
ATOM	709	0	ASN A			29.5		26.019	38.051	1.00 32.05	7
ATOM	710	N	ILE A			30.		27.173	37.809	1.00 33.77	6
ATOM	711	CA	ILE A					26.734			6
ATOM	712	CE	ILE A			31.					6
ATOM	713	CG:				32.		27.831			6
	714	CG				32.	357	26.342			6
ATOM		CD				32.		27.483	40.176		9
ATOM	715					30.		27.857	36.482		6
ATOM	716	C	ILE A			29.		27.196		1.00 32.72	8
ATCM	717	0	ILE A			30.		29.179			7
ATOM	718	N	GLY A			5 0.	77/	29.915			6
ATOM	719	CA	GLY A			29.	774				
ATOM	720	С	GLY A			28.					
	721	ō	GLY 3			28.	628	31.670			
ATOM	722	Ŋ	GLY ?			27.	670	30.25			
ATOM							387	30.93	7 35.75		_
ATOM	723	CA					316			4 1.00 34.32	
ATOM -	. 724	C	GLY ?				302				8
ATOM	725		GLY A								
±mom	726	N	TYR ?	3 91		25.	144	22.00		-	

. =014	727 CA TYR A 91	24.924 34.146 37.206 1.00 35.76 6
ATOM	728 CB TYR A 91	23.465 34.589 57.050 1.00 42 40 6
ATOM	729 CG TYR A 91	23.009 33.733 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
ATOM	730 CD1 TYR A 91	23.41/ 37.03/ 37.000 1.00 43.44 6
ATOM	731 CE1 TYR A 91	23.105 38.106 38.37
ATOM	732 CD2 TYR A 91	22.444 35.484 39.203 1.00
MOTA	733 CE2 TYR A 91	22.132 36.526 40.557 1.00 43.41 6
MOTA	734 CZ TYR A 91	22.402 37.023 30.00 43.60 8
MOTA MOTA	735 OH TYR A 91	22.130 38.835 40.040 1.00 34 15 6
ATOM	736 C TYR A 91	25.242 34.082 36.701 1.00 29.52 8
ATOM	737 O TYR A 91	25.821 35.014 39.200 1.00 34 78 7
ATOM	738 N GLUA 92	24.837 32.986 39.333 1.00 38 46 6
ATOM	739 CA GLU A 92	25.024 32.737 40.011 1 00 43 99 6
ATOM	740 CB GLU A 92	24.233 31.304 1 00 53 10 6
ATOM	741 CG GLU A 92	23.932 31.403 43.097 1.00 58.00 6
MOTA	742 CD GLU A 92	24 001 29 126 43.058 1.00 60.63 8
MOTA	743 OE1 GLU A 92	22 087 30.149 43.434 1.00 59.58 8
MOTA	744 022 024	26.492 32.669 41.208 1.00 36.42 6
ATOM	743 6 626	26,902 33.287 42.193 1.00 32.92 0
ATOM	746 O GLUA 92 747 N ASNA 93	27.280 31.883 40.473 1.00 34.12
MOTA	748 CA ASN A 93	28.693 31.671 40.808 1.00 33.24 6
ATOM	749 CB ASN A 93	28.871 30.239 41.304 2.00
ATOM ATOM	750 CG ASN A 93	21.134 23.032
ATOM	751 OD1 ASN A 93	27.54/ 30.45/ 43.335 1.00.31.70
MOTA	752 ND2 ASN A 93	20.930 20.032 1 00 35 04 6
ATOM	753 C ASN A 93	29.329 31.033 81 8
MOTA	754 O ASN A 93	30.160 30.091 39.010 1.00 36.19 7
ATOM	755 N PRO A 94	29 970 34 231 39.690 1.00 34.62 6
MOTA	756 CD PRO A 94	20.274 33 560 37.808 1.00 34.80 6
MOTA	757 CA PRO A 94 758 CB PRO A 94	29 924 35.050 37.791 1.00 33.94 6
ATOM	750 CD 2510	28 619 35.095 38.516 1.00 36.13 6
MOTA	733 00 2112	31.775 33.379 37.733 1.00 34.63
MOTA	760 C PRO A 94 · 761 O PRO A 94	32.443 33.103 38.730 1.00 34.72 8
ATOM	762 N VAL A 95	32.299 33.556 36.526 1.00 33.37
MOTA MOTA	763 CA VAL A 95	33.735 33.499 30.331 1.00 29 88 6
ATOM	764 CB VAL A 95	34.085 33.171 34.641 1.00 29.53 6
MOTA	765 CG1 VAL A 95	35.561 33.433 34.563 100 20 05 6
MOTA	766 CG2 VAL A 95	34.105 34.910 36.624 1.00 29.86 6
ATOM	767 C VAL A 95	33 524 35 879 36,272 1.00 29.07 8
ATOM	768 O VAL A 95	35 318 35 019 37.317 1.00 30.89 7
ATOM	769 N SER A 96 770 CA SER A 96	35 889 36.310 37.687 1.00 32.27 6
MOTA	7,0 04. 02.	34 885 37.145 38.501 1.00 30.16 6
MOTA	771 CD DDI	34.600 36.545 39.756 1.00 26.77 6
ATOM	772 OG SER A 96 773 C SER A 96	37.111 35.993 38.537 1.00 32.96 0
ATOM	774 O SER A 96	37.603 34.865 36.311 1.00
ATOM	775 N TYR A 97	37.609 36.973 33.202 1.00 31 95 6
atom atom	776 CA TYR A 97	38.753 30.712 30.222 1.00 31.81 6
ATOM	777 CB TYR A 97	39.838 37.700 39.525 1.00 30 39 6
ATOM	778 CG TYR A 97	40.416 37.729 30.322 1.00 30.63 6
MOTA	779 CD1 TYR A 97	39.820 38.454 36 178 1.00 28.49 6
MOTA	780 CE1 TYR A 97	41 536 36 945 38.236 1.00 28.43 6
ATOM	781 CD2 TYR A 97	42.046 36.858 36.942 1.00 24.73 6
ATOM	782 CE2 TYR A 97	41 437 37.565 35.919 1.00 27.27 6
MOTA	.05 00 -511	41 915 37.455 34.633 1.00 26.70 8
MOTA	704 011 2211 07	38.350 36.618 41.596 1.00 31.10 6
ATOM		39.178 36.735 42.495 1.00 33.01 8
ATOM	,00	37.059 36.398 41.818 1.00 31.11
ATOM	.07	36.510 36.241 43.160 1.00 30.00 5
ATOM	738 CA ALA A 90 789 CB ALA A 98	35.141 36.920 43.256 1.00 27.71
ATOM	-90 C ALA A 98	36.350 34.730 33.337 1.00 39 66 8
ATCM	791 O ALA A 98	36.335 34.236 49.330 1.00 29.50 7
atom atom	792 N MET A 99	36.249 34.030 42.230 1.00 29.50 7
A CH		•

3 0004	793	CA !	ÆT A	99	36	.048	32.589	42.207	1.00 29		6
MOTA			ÆT À		35	.774	32.123	40.778	1.00 30		6
MOTA	794	-	ÆT A		_	.942	32.265	39.822	1.00 29		6
ATOM	795	-	MET A		_	.426	31.939	38.126	1.00 29	9.78	16
MOTA	796		MET A			.629	30.273	38.347	1.00 25	5.05	6
MOTA	797					.199	31.800	42.783	1.00 30	0.81	6
MOTA	798		MET A			.993	30.757	43.406	1.00 30		8 .
ATOM	799		MET A			.417	32.274	42.569	1.00 3		7
ATOM	800		PHE A				31.557	43.114	1.00 3		6
ATOM	801		PHE A		39	.554	30.817	42.029	1.00 3		6
ATOM	802		PHE A			.322		42.578	1.00 4		6
MOTA	803		PHE A			.434	29.979	43.364	1.00 4		6
MOTA	804		PHE A		41	.152	28.862 30.339	42.372	1.00 4		6
ATOM	805		PHE A			.768		43.941		1.63	6
MOTA	806		PHE A			.185	28.115 29.600	42.944	1.00 4		6
MOTA	807		PHE A			.808		43.729	1.00 3		6
MOTA	808		PHE A			.517	28.487	43.895	1.00 3	3.98	6
ATOM	809		PHE A			.519	32.438 32.231	45.088	1.00 3		8
MOTA	810		PHE A			.706	33.415	43.245	1.00 2		7
MOTA	811		THR A			.137	34.261	43.969	1.00 2		6
MOTA	812		THR A			.063	35.378	43.072	1.00 2		6
MOTA	813		THR A			. 623		42.052	1.00 2		8
ATOM	814		THR A			.441	34.795 36.335	43.876		5.00	6
ATOM	815		THR A			.468	34.860	45.205	1.00 2		6
MOTA	816		THR A			408		46.282	1.00 2		8
MOTA	817		THR A			988	34.845 35.377	45.068	1.00 2		7
MOTA	818		GLY A).197		46.231	1.00 2		6
MOTA	819		GLY A			9.533	35.947	47.153	1.00 2		6
MOTA	820		GLY A			0.072	34.833	48.378	1.00 2		8
ATOM	821	0	GLY A	A 102		3.209	34.909	46.544	1.00 2		7
ATOM	822	N		A 103		3.512	33.792	47.276	1.00 2		6
ATOM	823	CA		A 103		3.028	32.640	46.314	1.00 2		6
ATOM	824	CB	SER A	A 103		7.454	31.598		1.00		8
MOTA	825	OG		A 103		5.314	32.099	48.032	1.00		6
MOTA	826	C		A 103		9.188	32.040	49.144	1.00		8
ATOM	827	O		A 103		9.019	31.544 32.080	47.410	1.00		7
MOTA	828	31		A 104		0.364		48.008	1.00		6
ATOM	829	CA	SER	A 104		1.590	31.552	47.039	1.00		6
MCTA	830	CS		A 104		2.769	31.683 31.044	45.804	1.00		8
ATOM	831	OG		A 104		2.501	32.401	49.226	1.00		6
MOTA	832	С		A 104		1.870	31.897	50.338	1.00		8
MOTA	833	С		A 104		2.026	33.705	48.986	1.00		7
MOTA	834	N	LEU	A 105		1.909 2.163	34.698	50.008	1.00		6
MOTA	835	CY		A 105		2.103	36.082	49.382	1.00	23.57	6
MOTA	836	СВ		A 105		3.158	37.091	49.672	1.00	26.30	6
MOTA	837	CG		A 105		4.502	36.551	49.178		22.38	6
MOTA	838	CD1	LEU	A 105		2.823	38.413	48.984	1.00	27.36	6
ATOM	839		LEU	A 105		1.187	34.559			23.48	. 6
ATCM	840	C		A 105		1.604	34.448			21.60	8
MOTA	841	0		A 105		9.887	34.556		1.00	25.32	7
ATOM	842	N		A 106		8.884				26.04	6
MOTA	843	CA		A 106		7.471			_	24.28	6
ATOM	844	23		A 106		9.088				25.76	6 6
MOTA	845	C		A 106		8.953				22.75	8
MOTA	846	0		A 106		9.410				25.65	7
MOTA	847	N		A 107		9.620				25.54	6
MOTA	848	CA		A 107		9.706				21.92	6
ATOM	849	C3		A 107		8.559				26.40	8
ATOM	850	OG1		A 107	2	9.742	28.295			17.36	6
ATOM	851	CG2	THR	A 107		0.901			1.00	28.16	6
ATCM	852	٥	THR	A 107		0.906			1.00	28.07	
ATCM	853	0	THK	A 107		11.994			1.00	28.51	
atom	854		GLY	A 108		13.247			1.00	28.37	
ATCM	855	_	GLY	A 108		13.027			1.00	30.26	; 6
ATCM	856		CLY	A 108 A 108		13.502				32.98	8
ATCM	857		CED	A 100		12.283				24.81	. 7
ATOM	858	14	. JER		7			•			
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Figure 17-14

	859 CA SER A 109	42.002 33.810 56.119 1.00 24.86 6
ATOM	859 CA SER A 109 860 CB SER A 109	41.222 35.066 33.727 1.00
ATOM	861 OG SER A 109	41.992 35.898 34.072 1.00 27 89 6
ATOM	862 C SER A 109	41.240 32.996 37.173 1.00
ATOM	863 O SER A 109	41.424 33.214 30.37 1.00.23 91 7
MOTA	864 N THR A 110	40.389 32.064 56.744 1.00 24.80 6
MOTA	865 CA THR A 110	39.676 31.259 37.721 1.00
MOTA	866 CB THR A 110	38.041 30.23
ATOM	867 OG1 THR A 110	37.469 31.016 50.005 1.00 29 00 6
MOTA MOTA	868 CG2 THR A 110	38.228 23.203 50 478 1 00 24 34 6
ATOM	869 C THR A 110	40.712 30.449 30.470 1.00 24 74 8
ATOM	870 O THR A 110	40.013 30.22 57 764 1 00 23 01 7
ATOM	871 N VAL A 111	41./13 23.33 6
ATOM	872 CA VAL A 111	42.733 . 23.273 - 20.00 25 77 6
ATOM	873 CB VAL A 111	43.095 27.773 58.121 1.00 22.51 6
ATOM	874 CG1 VAL A 111	42 888 27 502 56.534 1.00 22.67 6
MOTA	875 CG2 VAL A 111	42 576 30 071 59 329 1.00 23.14 6
MOTA	876 C VAL A 111	43 720 29.793 60.518 1.00 24.11 8
ATOM	877 O VAL A 111 878 N GLN A 112	44 101 31.156 58.772 1.00 24.94
ATOM		44 895 32.100 59.554 1.00 25.12 6
MOTA		45.082 33.413 58.779 1.00 25.14 6
MOTA	112	45.545 33.224 57.330 1.00 28.31
ATOM	881 CG GLN A 112 882 CD GLN A 112	45.789 34.534 30.334 1.00 31 32 8
MOTA	883 OE1 GLN A 112	46.779 33.219 30.037 2100 29 31 7
MOTA	884 NE2 GLN A 112	44.877 34.890 55.034 1.00 24.62 6
ATOM ATOM	885 C GLN A 112	44.107 32.362 60.627 2.00 21 10 8
ATOM	886 O GLN A 112	44.847 32.311 60 644 1 00 24 41 7
ATOM	887 N ALA A 113	42.813 32.004 61.751 1.00 23.33 6
ATOM	888 CA ALA A 113	40.516 33.183 61.224 1.00 19.80 6
ATOM	889 CB ALA A 113	40.510 33.1233 62.729 1.00 25.34 6
MOTA	890 C ALA A 113	41 925 31.930 63.946 1.00 27.52 8
MOTA	891 O ALA A 113 892 N ILE A 114	41 859 30.509 62.211 1.00 24.39
MOTA		41 867 29.356 63.106 1.00 24.49
MOTA		41.524 28.042 62.371 1.00 23.46
MOTA	894 CB ILE A 114 895 CG2 ILE A 114	41.902 26.855 63.227 1.00 18.97
MOTA	896 CG1 ILE A 114	40.030 28.015 62.034 1.00 23 51 6
ATOM ATOM	897 CD1 ILE A 114	39.598 26.791 61.233 1.00 24 32 6
MOTA	898 C ILE A 114	43.230 29.227 63.737 1.00 24 74 8
ATOM	899 O ILE A 114	43.328 20.520 63 019 1.00 26.58 7
MOTA	900 N GLU A 115	44.280 25.500 63 551 1.00 25.89 6
ATOM	901 CA GLU A 115	45.630 29.992 62.508 1.00 22.63 6
MOTA	902 CB GLU A 115	46 554 29 264 61.192 1.00 20.39 6
ATOM	903 CG GLU A 115	47 669 29 670 60 244 1.00 21.39
ATOM	904 CD GLU A 115	17 848 30.887 60.016 1.00 19.60 8
MOTA	905 OE1 GLU A 115 906 OE2 GLU A 115	18 362 28.769 59.722 1.00 22.53 6
ATOM	116	45.724 30.422 64.774 1.00 27.30
MOTA	115	46.173 30.006 65.837 1.00 25.96
MOTA	908 O GLU A 115	45.267 31.660 04.013 1.00 0
MOTA	910 CA GLU A 116	45.282 32.031 05.703 1.00 36 91 6
atom Atom	911 CB GLU A 116	44.6/6 33.939 03.200 1 00 41 14 6
MOTA	912 CG GLU A 116	45.434 34.605 64.605 1.00 43.09 6
MOTA	913 CD GLU A 116	46.872 34.982 65.427 1.00 43.42 8
MOTA	914 OE1 GLU A 116	47.072 33.369 63 849 1.00 41.76 8
ATOM	915 CE2 GLU A 116	47.802 32.331 66.947 1.00 35.11
ATOM	916 C GLU A 116	44.545 32.228 68.061 1.00 37.26
MOTA	917 O GLU A 116	47 343 31 598 66.761 1.00 34.30
ATOM	918 N PHE A 117	13.577 21 096 67.893 1.00 34.44
atom	919 CA PHE A 127 920 CB PHE A 117	41 300 30.399 67.415 1.00 35.45
atom		40.383 29.979 68.533 1.00 37.14
ATOM		39.705 30.930 69.290 1.00 33.80
ATOM	922 CD1 PHE A 117 923 CD2 PHE A 117	40.196 28.630 68.832 1.00 38 08
ATOM	924 CE1 PHE A 117	38.853 30.549 70.323 1.00 38.08
ATOM	, , , , , , , , , , , , , , , , , , , ,	•

				-	20 220	28.2	34 69	.874	1.00 40	0.44	5
ATOM	925	CE2 .F	HE A 117	,	39.338				1.00 38		6
ATOM	926	CZ F	HE A 117	7	38.668						
	-		HE A 11	7	43.424	30.0	94 68		1.00 34		6
ATOM			THE R LL	,	43.490		36 69	.898	1.00 33	3.54	8
MCTA	928		HE A 11						1.00 3		7
MOTA	929	N I	EU A 118	3	44.069						6
			EU A 118		44.898	28.1	.58 68	. 523	1.00 3		
ATOM-					45.155	27.0	156 67	.488	1.00 3	0.59	6
MOTA	931		EU A 11			_	-	.038	1.00 2		6
ATOM			EU A 11		43.900				1.00 2	0.01	6
	933	CD3 I	LEU A 11	8	44.244	25.2		.996	1.00 2	0.61	
ATOM		CD2 I	EU A 11	Ω	43.259		62 68	. 257	1.00 2		6
ATOM					46.216			.084	1.00 3	4.37	6
MOTA	935		LEU A 11					.708	1.00 3		8
ATOM	936	0 1	LEU A 11	8	46.983	27.9					7
			LYS A 11		46.481	29.9	974 68	. 843-	1.00 3		
MOTA			LYS A 11		47.679			.365	1.00 3		6
ATOM	938							.448	1.00 3	3.52	6
MCTA	939	CB 1	LYS A 11	9	48.143		732 63	.100	1.00 3		6 -
ATOM	940	CG I	LYS A 11	9	48.614	31.2					6
	941		LYS A 11		49.111	. 32.4		.263	1.00 4		
MCTA			YS A 11		49.693		928 64	.949	1.00 4		6
MOTA	942							.092	1.00 5	1.48	7
MOTA	943	NZ	LYS A 11	9	50.16				1.00 3		6
MOTA	944	C	LYS A 11	9	47.27			705			
	945		LYS A 11		48.113	31.		1.562	1.00 3		8
MCTA			217 7 12	Ó	45.96			0.869	1.00 3	34.15	7
ATOM	946		GLY A 12		45.30			2.094	1.00 3	86.25	6
ATOM	947	CA	GLY A 12	.0	45.43				1.00		6
	948	С	GLY A 12	:0	44.86	33.		1.851	1.00	. 9 . 02	
ATOM		ō	GLY A 12	Ó	44.64	34.	072 72	2.796	1.00	10.23	8
ATOM	949	0	3D1 A 12		44.61		644 70	0.586	1.00	8.48	7
MCTA	950		ASN A 12					0.247	1.00		6
MCTA	951	CA	ASN A 12	11	44.07	-			1.00		6
	952	CB	ASN A 12	1	44.92	8 35.		9.170			
ATOM		ĊĞ	ASN A 12	7 7	46.34	0 35.	871 6	9.622	1.00	41.81	6
atom	953				47.07			9.926	1.00	47.67	. 8
MOTA	954	OD1	ASN A 12	έ 1 .	-			9.675	1.00		7
ATOM	955	ND2	ASN A 12	21	46.72				1.00		6
	956	С	ASN A 12	21	42.63	7 34.		9.772	1.00	30.33	
ATOM			ASN A 12		42.03	7 33.		9.704	1.00	34.08	8
ATOM	957				42.09		061 6	9.446	1.00	33.53	7
ATOM	958	N	VAL A 12	22				9 976	.1.00	34.77	6
ATOM	959	CA	VAL A 12	22	40.72	-			1.00	38.20	6
	960	СВ	VAL A 12	22	39.86	1 37.		9.898			
ATOM			VAL A 1		38.41	8 37.	.096 6	9.388		37.55	6
ATOM	961	CGI	VAL A 1	22	39.91		.553 7	1.342	1.00	37.77	6.
ATOM	962	CG2	VAL A 1	22		-		7.596	1.00	31.08	6
MCTA	963	С	VAL A 1	22	40.73					34.19	8
ATOM	964	0	VAL A 1	22	40.99			7.441			7
		N	ALA A 1	23	40.45	1 35.	.975 6	6.588	1.00	31.14	
MCTA	965				40.45		.476 6	5.231		30.26	6
ATOM	966	CA	ALA A 1					4.327	1.00	32.14	6
ATOM	967	CB	ALA A 1		41.30					28.26	6
ATOM	968	С	ALA A 1	23	39.03			4.716	1.00	20.20	8
	969	ō	ALA A 1	23	38.13	2 35		5.281	1.00	29.28	
ATOM					38.87	5 37	.276	3.631	1.00	28.70	7
ATOM	970	N	PHE A 1					2.976	1.00	28.38	6
ATOM	971	CA	PHE A 1	24	37.60		.413		1 00	29.16	6
ATOM	972	CB	PHE A 1	24	36.92			3.563			6
		CG	PHE A 1		35.64	15 39	.099 6	52.874	1.00	31.20	
ATOM	973				34.6		.139	52.564		32.00	6
ATOM	974	CD1	PHE A 1	24				52.579	1.00	29.53	6
ATOM	975	CD2	PHE A 1	24	35.3					30.74	6
ATOM	976	CE1		24	33.40			51.973	1.00	30.74	-
			PHE A 1		34.1	55 40	.813	51.988		27.45	6
MCTA	977	CE2			33.2			61.686	1.00	28.72	6
ATOM	. 978	CZ	PHE A 1	.24				61.496		30.19	6
ATOM	979	С	PHE A 1	.24	37.8						8
	980	ō	PHE A 1		38.4			61.095		32.10	
ATOM					37.5		.663	60.696		32.16	7
ATOM	981	N	ASN A 1	. .	37.7		.728	59.251	1.00	30.10	6
ATCM	982	CA	ASN A 1	.25				58.712		32.02	6
	983	CB	ASN A 1	.25	38.2	47 35					6
ATOM		CG	ASN A 1	25	38.2	81 35		57.195		33.79	
ATOM	984		VOIA V	25	38.7		.306	56.556		31.85	
ATOM	985	OD1	ASN A 1	145				56:609		30.51	
ATOM	986	ND2	ASN A 1	.25	37.7					29.80	
	987	C	ASN A 1	125	36.4	03 37		58.584			
ATOM			ASN A	25	35.6		.206	58.179		27.24	
ATOM	988	0	ASN A	120			3.386	58.451		28.25	. 7
ATCM	989	N	PRO A 1	120	36.1			58.833		29.22	
ATCM	990	CD	PRO A	126	36.9	9/ 39	.516	-0.032	, 1.00		
A - U.3											

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•	001 63	PRO A 126	34.909	38.891		1.00 27.92	6
MOTA	991 CA	PRO A 126	35.139	40.407	J	1.00 29.07	6
ATOM	992 CB	PRO A 126	36.649	40.520	57.775	1.00 26.54	Ó
ATOM	993 CG	PRO A 126	34.651	38.339		1.00 27.54	6
ATOM	994 C	PRO A 126	33.532	38.402	J = 1	1.00 28.66	8
MOTA	995 0	ALA A 127	35.687	37.795	55.820	1.00 26.99	7
MOTA	996 N	ALA A 127	35.548	37.244	54.477	1.00 26.54	6
ATOM	997 CA	ALA A 127	36.822	37.505		1.00 22.43	5
MOTA	998 CB	ALA A 127	35.225	35.744	54.480	1.00 27.38	6
MOTA	999 C	ALA A 127	35.038	35.140	53.423	1.00 29.04	8 7
ATOM	1000 O	GLY A 128	35.166	35.142		1.00 26.97	6
MOTA	1001 N 1002 CA	GLY A 128	34.874	33.724	55.737	1.00 25.65	6
ATOM	1002 CA 1003 C	GLY A 128	33.389	33.486	55.880	1.00 26.17 1.00 27.39	8
MOTA	1003 C	GLY A 128	32.600	34.428	55.804	1.00 27.39	7
MOTA	1005 N	GLY A 129	32.998	32.234	56.083	1.00 25.17	5
MOTA	1005 CA	GLY A 129	31.588	31.936	56.236	1.00 25.88	6
MOTA MOTA	1007 C	GLY A 129	30.847	31.674	54.937 54.848	1.00 25.07	8
ATOM	1008 0	GLY A 129	29.643	31.908	53.927	1.00 25.69	7
MOTA	1009 N	MET A 130	31.566	31.198 30.872	52.622	1.00 26.48	6
MOTA	1010 CA	MET A 130	30.981	30.872	51.567	1.00 28.53	6
ATOM	1011 CB	MET A 130	32.103	30.307	51.467	1.00 26.54	6
ATOM	1012 CG	MET A 130	32.795	32.266	50.613	1.00 26.29	16
ATOM	1013 SD	MET A 130	34.413 34.080	31.512	49.062	1.00 25.85	6
ATOM	1014 CE	MET A 130	34.000		52.768	1.00 24.47	5
MOTA	1015 C	MET A 130	30.333		52.113	1.00 17.67	8
MOTA	1016 0	MET A 130	29.347		53.636	1.00 23.28	7
MOTA	1017 N	HIS A 131	28.647		54.019	1.00 26.33	5
MOTA	1018 CA		27.685		55.180	1.00 26.98	6
MOTA	1019 CB		26.663			1.00 28.50	6 6
ATOM	1020 CG	2 HIS A 131	26.225	30.030		1.00 28.65	7
ATOM		1 HIS A 131	25.906	30.166		1.00 33.04	6
ATOM	1022 ND 1023 CE	1 HIS A 131	25.051			1.00 27.75 1.00 26.97	7
MOTA	1023 CE		25.224	30.932		1.00 28.44	6
MOTA MOTA	1025 C	HIS A 131	27.917	27.284	53.017	1.00 31.15	.3
MOTA	1026 0	HIS A 131	27.434			1.00 30.64	7
ATOM	1027 N	HIS A 132	27.861			1.00 28.71	6
ATOM	1028 CA	HIS A 132	27.111			1.00 27.21	6
ATOM	1029 CF	HIS A 132	26.323 25.400		-	1.00 28.83	6
ATOM	1030 CC	HIS A 132	25.40			1.00 28.92	6
MOTA	1031 CI	02 HIS A 132	24.68			1.00 31.80	7
MOTA		D1 HIS A 132	23.98	•		1.00 29.95	6
ATOM		E1 HIS A 132 E2 HIS A 132	24.22		3 51.579		7
MOTA			27.88	9 25.970	0 49.851		6 8
MOTA	•	133	27.39	9 24.37	5 49.533	1.00 23.44	7
ATOM	1036 O 1037 N	111	29.09	3 26.37	9 49.455		6
ATOM	1037 IN		29.95				_
ATOM	1039 C		31.29	5 26.30			
MOTA MOTA	1040 C	- 4	30.19				
ATOM	1041 0	ALA A 133	30.70				
MOTA	1042 N	PHE A 134	29.85				
MOTA		A PHE A 134	30.04				6
ATOM	1044 C	B PHE A 134	29.07			1.00 15.75	6
ATOM		G PHE A 134	27.62 26.92			9 1.00 14.83	6
MOTA		D1 PHE A 134	26.98			3 1.00 14.03	3 6
ATOM		D2 PHE A 134	25.63		6 47.40	4 1.00 14.84	1 6
MOTA		E1 PHE A 134	25.6	_	34 49.51	9 1.00 12.0	
ATOM		E2 PHE A 134	24.9	85 21.94	19 48.58	1 1.00 14.5	9 6
ATOM		Z PHE A 134 PHE A 134	31.4	60 21.33	10 48.31	9 1.00 29.4	8 6 9 8
ATOM	-	174	32.2	91 22.06	56 47.82		
ATOM		N LYS A 134	31.7	13 20.04	45 48.62		
ATOM		CA LYS A 135	33.0	12 19.42	27 48.42		
ATOM		CB LYS A 135	32.9	23 17.9	71 48.88		-
ATOM	4055	CG LYS A 135	34.1	52 17.1	31 48.63	0 1.00 32.4	-
atom							

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t TOM	1057	CD	LYS A	135	33	. 965	15.734	49.221	1.00 29.67	6
ATOM ATOM	1058		LYS A		.34	.234	15.703	50.716	1.00 30.09	6
ATOM	1059		LYS A		35	. 679	15.973	51.001	1.00 26.25	?
ATOM	1060		LYS A		33	.513	19.516	46.993	1.00 30.22	6 8
ATOM	1061		LYS A			.714	19.672	46.763	1.00 30.00	7
ATOM	1062		SER A			.600	19.434	46.028	1.00 31.69 1.00 32.88	6
ATOM	1063	CA	SER A	136		.995	19.489	44.619	1.00 31.41	6
ATOM	1064	CB	SER A			.038	18.077	44.040	1.00 31.41	8
ATOM	1065	OG	SER A			.882	17.241	44.810 43.727	1.00 33.41	6
ATOM	1066	С	SER A			. 297	20.347	42.553	1.00 36.11	8
ATOM	1067	0	SER A			.921	21.425	44.262	1.00 30.61	7
MOTA	1068		ARG A			.536 .664	22.272	43.459	1.00 32.28	-6
MOTA	1069	CA	ARG A		29	.324	21.554	43.202	1.00 35.91	6
ATOM ·	1070	CB CG	ARG A			.224	22.458	42.627	1.00 43.90	6
MOTA	1071 1072	CD	ARG A			.819	21.836	42.751	1.00 48.28	6
MOTA MOTA	1073	NE	ARG A			.571	20.767	41.787	1.00 53.38	7
ATOM	1074	CZ	ARG A		26	.150	20.960	40.538	1.00 55.30	6 7
ATOM	1075		ARG A			.921	22.185	40.090	1.00 54.06 1.00 58.96	7
ATOM	1076	NH2	ARG A	137		.969	19.922	39.728	1.00 30.24	6
ATOM	1077	С	ARG A			.405	23.631	44.113 45.338	1.00 30.24	8
MOTA	1078	0	ARG A			.380	23.748 24.653	43.279	1.00 27.33	7
MOTA	1079	N	ALA A			.219	26.000	43.757	1.00 27.36	6
MOTA	1080	CA	ALA A			.149	26.997	42.645	1.00 27.57	6
MOTA	1081	CB	ALA A ALA A			.496	26.003	44.213	1.00 26.45	6
ATOM	1082 1083	C 0	ALA A			.747	25.083	43.865	1.00 27.30	8
MOTA	1083	Ŋ	ASN A	139		.090	27.021	44.975	1.00 22.47	7
ATOM ATOM	1085	CA	ASN A	139		.711	27.063	45.471	1.00 23.85	6
ATOM	1086	CB	ASN A			.406	25.738	46.218	1.00 16.82	6 6
ATOM	1087	CG	ASN A			.040	25.718	46.900	1.00 14.45	8
MOTA	1088	OD1	ASN A	139		.019	26.084	46.319 48.139	1.00 20.08	7
MOTA	1089		ASN A	139		.018	25.249 28.277	46.368	1.00 26.09	6
MOTA	1090	C	ASN A			7.239	28.600	47.260	1.00 27.50	8
ATOM	1091	0	ASN A GLY A	140		5.326	28.954	46.114	1.00 24.83	7
MOTA	1092	N CA	GLY A	140		1.965	30.106	46.916	1.00 22.24	6
MOTA	1093 1094	C	GLY A			.991	31.211	46.890	1.00 22.35	6
MOTA MOTA	1095	Ö	GLY A			5.256	31.843	47.910	1.00 23.50	8
ATOM	1096	N	PHE A			5.570	31.437	45.717	1.00 25.60	7 6
ATOM	1097	CA	PHE A			7.582	32.476	45.518	1.00 26.47 1.00 28.05	6
MOTA	1098	CB	PHE A			7.204	33.765	46.258 45.792	1.00 28.61	6
MOTA	1099	CG	PHE A			5.925	34.391 35.428	46.518	1.00 30.74	6
MOTA	1100	CD1				5.352 5.312	33.975	44.620	1.00 29.10	6
ATOM	1101	CD2	PHE A			4.193	36.044	46.087	1.00 29.33	6
MC A	1102	CE1		141		4.150	34.583	44.177	1.00 31.03	6
A COM A TOM	1103 1104	CZ	PHE A			3.589	35.621	44.912	1.00 32.59	6
ATOM	1105	c	PHE 2			8.954	32.038	45.991	1.00 24.63	6
ATOM	1106	ŏ	PHE A			9.938	32.727	45.733	1.00 29.72 1.00 21.11	8 7
MOTA	1107	N	CYS A			9.025	30.897	46.667	1.00 21.11	6
ATOM	1108	CA	CYS A			0.296		47.192	1.00 22.30	6
MOTA	1109	CB	CYS ?			0.062			1.00 22.93	16
MOTA	1110	SG	CYS A	142		8.943 1.017				6
MOTA	1111	С	CYS A	142		0.408				. 8
ATOM	1112	o V	CYS A			2.317			1.00 23.09	7
ATOM	1113	N Ca		A 143 A 143	3	3.129		45.335	1.00 23.05	6
MOTA	1114	CA CB		A 143		4.063		44.375	1.00 21.60	
ATOM:	1115 1116	CG		A 143		3.377		43.487		6
ATOM	1117	CDI		A 143		2.969	31.609	43.999		
atom atom	1118	CE		A 143		2.365				
ATOM	1119	ĊD:	TYR	A 143		3.154				
ATOM	1120	CE	TYR	A 143	3	2.544	31.061			
ATOM	1121	CZ	TYR Z	A 143	3	2.153	32.281			
ATOM	1122	OH	TYR .	A 143	3	1.553	33.241	41.004	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

			22.000	27 766	46.290	1.00 24.22	6
MOTA	1123 C	TYR A 143	33.960			1.00 24.58	8
ATOM	1124 0	TYR A 143	34.266			1.00 24.30	7
			34.327	28.329		1.00 23.83	
ATOM.			35.086	27.566		1.00 20.24	6
MOTA	1126 C		36.547		48.453	1.00 17.27	6
MOTA	1127 C			-	49.662	1.00 11.03	6
ATOM	1128 C	G2 ILE A 144	37.231	27.354	47.110	1.00 14.93	6
ATOM	1129 C	G1_ILE A 144	37.185	27.603		1.00 19.68	6
	1130 C	D1 ILE A 144	38.601	28.028			
ATOM			34.495	27.703	49.815	1.00 21.77	6
MOTA			34.288	28.811	50.318	1.00 21.19	8
MOTA	1132 0		34.212	26.555	50.424	1.00 23.00	7
MOTA	1133 N			26.508	51.750	1.00 20.92	6.
ATOM	1134 C	A ASN A 145	33.616		51.935	1.00 17.08	6
MOTA	1135 C	B ASN A 145	32.902	25.170		1.00 21.04	6
MOTA		G ASN A 145	32.079	25.125	53.203	1.00 20.97	8
		D1 ASN A 145	32.549	25.508	54.276	1.00 20.97	7
MOTA	1138 N	D2 ASN A 145	30.844	24.640	53.093	1.00 20.93	
MOTA			34.706	26.669	52.806	1.00 19.68	6
MOTA			35.201	25.679	53.351	1.00 20.64	8
MOTA	1140		35.079	27.911	53.100	1.00 16.28	7
MOTA		ASN A 146		28.143	54.088	1.00 19.34	6
MOTA	1142	A ASN A 146	36.123		54.207	1.00 20.27	6
ATOM	1143	B ASN A 146	36.428	29.651		1.00 18.05	6
MOTA		G ASN A 146	35.292	30.444	54.795	1.00 25.83	8
		D1 ASN A 146	35.079	30.421	55.999	1.00 25.05	7
MOTA	1145 N	ND2 ASN A 146	34.552	31.149	53.948	1.00 16.04	
MOTA			35.775	27.504	55.443	1.00 20.48	6
MOTA			36.663	27.027	56.151	1.00 19.88	8
MOTA		ASN A 146	34.482	27.485	55.819	1.00 19.38	7
ATOM	1149 i	N PRO A 147		28.068	55.135	1.00 17.48	6
MOTA	1150	D PRO A 147	33.312		57.087	1.00 22.25	6
ATOM	1151	CA PRO A 147	34.058	26.877	57.057	1.00 20.15	6
ATOM	1152	CB PRO A 147	32.539	27.065	-	1.00 20.13	6
		CG PRO A 147	32.407	28.378	56.305		6
MOTA		C PRO A 147	34.443	25.383	57.188	1.00 26.89	
MOTA			35.066	24.954.	58.169	1.00 29.10	8
ATOM		O PRO A 147	34.070	24.596	56.176	1.00 25.88	7
MOTA		N ALA A 148	34.372	23.164	56.174	1.00 25.47	6
ATOM	1157	CA ALA A 148	33.670	22.468	55.009	1.00 21.84	6
ATOM	1158	CB ALA A 148		22.916	56.100	1.00 25.94	6
ATOM	1159	C ALA A 148	35.870		56.701	1.00 27.19	8
ATOM	1160	O ALA A 148	36.382	21.971		1.00 26.11	7
ATOM		N VAL A 149	36.574	23.756	55.349		6
		CA VAL A 149	38.017	23.609	55.233	1.00 24.04	
ATOM		CB VAL A 149	38.622	24.663	54.267	1.00 26.16	6
ATOM			40.135	24.476	54.158	1.00 25.36	6
ATOM	1164		37.970	24.544	52.886	1.00 26.81	6
MOTA	1165	CG2 VAL A 149	38.516	23.870	56.640	1.00 23.57	6
MOTA	1166	C VAL A 149	39.453	23.228	57.122	1.00 19.75	8
ATOM	1167	O VAL A 149			57.299	1.00 22.20	7
MOTA	1168	N GLY A 150	37.850			1.00 25.43	6
MOTA	1169	CA GLY A 150	38.210		58.654	1.00 27.19	6
ATOM	1170	C GLY A 150	38.130		59.568	1.00 27.15	8
	1171	O GLY A 150	39.112	23.620		1.00 27.05	
ATOM		N ILE A 151	36.959	23.348	59.618		7
ATOM	1172		36.775			1.00 28.24	6
ATOM	1173		35.317			1.00 29.41	6
ATOM	1174	CB ILE A 151					6
MOTA	1175	CG2 ILE A 151	35.251				6
MOTA	1176	CG1 ILE A 151	34.394				6
ATOM	1177	CD1 ILE A 151	34.255				6
	1178	C ILE A 151	37.723	21.039			8
ATCM			38.340	20.420	60.947		
MOTA	1179		37.843	20.769	58.778	1.00 29.91	7
atom	1180	N GLU A 152	38.704	19.690		1.00 32.58	6
ATOM	1181	CA GLU A 152	38.57			1.00 35.07	6
ATCM	1182	CB GLU A 152					
ATOM	1183	CG GLU A 152	37.269				
ATOM	1184	CD GLU A 152	37.120				
	1185	OE1 GLU A 152	36.089				
ATOM	1186	OE2 GLU A 152	38.03	16.992	2 57.723		
ATOM		C GLU A 152	40.14		3 58.72		_
ATCM	1187	153	40.87			3 1.00 30.15	8
MOM	1188	O GLU A 152	30.00		-		

ATOM	1189	N	TYP	A 153	40.541	21.170	58.765	1.00 33.90	7
							59.193	1.00 32.04	6
ATOM	1190	CA	TYR .	A 153	41.875	21.563			
ATOM	1191	CB	TYR	A 153	42.019	23.074	59.058	1.00 34.88	6
					43.280	23.667	59.639	1.00 38.03	6
ATOM	1192	CG		A 153					
ATOM	1193	CD1	TYR .	A 153	44.498	23.611	58.948	1.00 42.34	6
				A 153	45.658	24.207	59.475	1.00 43.38	6
ATOM	1194	CE1							
ATOM	1195	CD2	TYR .	A 153	43.250	24.321	60.869	1.00 37.19	6
	1196	CE2		A 153	44.387	24.913	61.401	1.00 41.09	6
ATOM (
MOTA	1197	CZ	TYR .	A 153	45.587	24.860	60.704	1.00 43.34	6
	1198	OH	TYR .	2 153	46.696	25.480	61.241	1.00 44.86	8
ATOM									6
ATOM	1199	С	TYR .	A 153	41.919	21.168	60.667	1.00 32.59	
ATOM	1200 -	0	TYR	A 153	42.867	20.518	61.120	1.00 32.24	8
					40.869	21.556	61.397	1.00 30.10	7
MOTA	1201	N		A 154					
MOTA	1202	CA	LEU .	A 154	40.730	21.261	62.823	1.00 29.38	6
	1203	CB	FII	A 154	39.443	21.889	63.378	1.00 28.60	6
ATOM								1.00 31.20	6 -
ATOM	1204	CG	LEU.	A 154	39.399	23.407	63.518		
ATOM	1205	CD1	LEU .	A 154	37.991	23.833	64.041	1.00 28.53	6
			LEU		40.418	23.787	64.691	1.00 24.95	6
ATOM	1206	CDZ							
ATOM	1207	С	LEU .	A 154	40.732	19.772	63.146	1.00 29.56	6
ATOM	1208	0	LEU	A 154	41.223	19.363	64.196	1.00 28.36	8
								1.00 31.95	7
ATOM	1209	N	ARG .	A 155	40.174	18.958	62.256		
ATOM	1210	CA	ARG .	A 155	40.134	17.522	62.499	1.00 33.00	6
					39.127	16.847	61.561	1.00 33.13	6
ATOM	1211	CB		A 155					
ATOM	1212.	CG	ARG .	A 155	37.708	17.368	61.769	1.00 32.84	6
	1213	CD		A 155	36.678	16.719	60.863	1.00 32.92	6
ATOM									7
ATOM	1214	NE	ARG .	A 155	36.152	15.451	61.363	1.00 33.98	
ATOM	1215	CZ	ARG .	A 155	35.195	14.760	60.741	1.00 37.93	6
						15.216	59.605	1.00 38.39	7
MOTA	1216	NH1		A 155	34.671				
ATOM	1217	NH2	ARG .	A 155	34.732	13.631	61.259	1.00 38.67	7
	1218	С	ARG	A 155	41.521	16.929	62.331	1.00 33.97	6
ATOM							62.985	1.00 32.95	8
ATOM	1219	0	ARG .	A 155	41.869	15.941			
ATOM	1220	N	LYS .	A 156	42.318	17.548	61.467	1.00 34.20	7
	1221	_		A 156	43.679	17.081	61.243	1.00 36.32	6
MCTA		CA							
ATCM	1222	CB	LYS .	A 156	44.249	17.662	59.942	1.00 37.57	6
MOTA	1223	CG	LYS .	A 156	45.673	17.187	59.638	1.00 40.32	6
	1224	CD		A 156	46.116	17.532	58.220	1.00 40.33	6
ATOM									6
ATOM	1225	CE	LYS .	A 156	45.180	16.909	57.184	1.00 41.27	
ATCM	1226	NZ	LYS .	A 156	45.015	15.435	. 57.364	1.00 37.92	7
	1227			A 156	44.539	17.501	62.428	1.00 36.17	6
ATOM									8
ATOM	1228	0	LYS	à 156	45.582	16.905	62.699	1.00 34.53	
ATOM	1229	N	LYS .	a 157	44.093	18.537	63.132	1.00 36.71	7
	1230	CA		A 157	44.820	19.026	64.294	1.00 37.09	6
ATOM									6
ATOM	1231	CB		A 157	44.495	20.501	64.566	1.00 37.02	
ATOM	1232	CG	LYS	A 157	44.982	21.435	63.477	1.00 36.22	6
				A 157	46.468	21.231	63.239	1.00 37.91	6
ATOM	1233	CD							
ATOM	1234	ΞΞ	LYS .	A 157	46.993	22.100	62.107	1.00 39.35	6
ATOM	1235	.JZ	LYS	A 157	48.434	21.815	61.842	1.00 38.78	7
				A 157	44.498	18.178	65.515	1.00 35.61	6
ATOM	1236	_							
ATOM	1237	0 '	LYS .	A 157	45.204	18.232	66.518	1.00 36.38	8
	1238	N	GLV.	A 158	43.433	17.392	65.431	1.00 34.37	7
ATOM								1.00 38.08	6
ATOM	1239	CA		A 158	43.097	16.537	66.552		
ATOM	1240	·C	GLY .	A 158	41.782	16.781	67.267	1.00 38.78	6
	1241	ŏ		à 158	41.460	16.053	68.208	1.00 41.07	8
ATOM									7
ATOM	1242	N		A 159	41.023	17.791	66.855	1.00 36.75	
ATOM	1243	CA	PHE .	A 159	39.743	18.046	67.505	1.00 33.83	6
				à 159	39.246	19.459	67.213	1.00 32.65	6
ATOM	1244	СВ				20.505			6
ATOM	1245	CG	PHE .	A 159	40.115	20.521	67.787	1.00 29.97	0
ATOM	1246	CD1	PHE .	à 159	41.404	20.724	67.297	1.00 30.20	6
A. CH					39.672	21.289	68.853	1.00 29.28	6
MCTA	1247		PHE .						
ATOM	1248	CE1	PHE .	A 159	42.241	21.680	67.862	1.00 28.96	6
ATIM	1249	CE2		A 159	40.498	22.246	69.428	1.00 29.67	5
A						22.442	68.931	1.00 30.59	. 6
ATCM	1250	CZ		A 159	41.785				
ATOM	1251	С		A 159	38.732	17.026	67.025	1.00 33.41	6
ATOM	1252	0	PHE	A 1.59	38.664	16.716	65.938	1.00 31.61	8
					37.951	16.506	67.966	1.00 35.13	7
ATOM	1253	N		A 160					
ATOM	1254	CA	LYS .	A 160	36.947	15.493	67.677	1.00 35.39	6
							-		

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				•	37.342	14.198	68.389	1.00 36.43	6
MOTA	1255 C	B LYS	A 160		38.535	13.502	67.708	1.00 40.67	6
ATOM	1256 C	G LYS	A 160			12.538		1.00 44.68	6
ATOM	1257 C	D LYS	A 160		39.312		69.345	1.00 49.23	6
MOTA		E LYS	A 160		38.425	11.536	70.411	1.00 50.63	7
		Z LYS	A 160		37.593	12.182		1.00 35.94	6
MOTA			A 160		35.524	15.927	68.027	1.00 35.74	8
MOTA		TVC	A 160		34.561	15.241	67.691	1.00 35.72	
MOTA		- 752	A 161		35.399	17.058	68.718	1.00 34.35	7
MOTA	1262 N	DAM .	A 161		34.091	17.618	69.044	1.00 34.95	6
MOTA		A ARG	A 101		33.771	17.525	70.535	1.00 33.94	6
ATOM		B ARG	A 161		33.427	16.132	70.992	1.00 38.25	6
ATOM			A 161	•		16.131	72.386	1.00 41.17	6.
MOTA	1266	D ARG	A 161		32.823 33.719	16.722	73.378	1.00 47.64	7
ATOM		TE ARG	A 161		33.719	16.233	73.705	1.00 47.92	6
MOTA	1268	Z ARG	A 161		34.912	15.131	73.121	1.00 47.56	7
ATOM	1269	IH1 ARG	A 161		35.372	16.858	74.616	1.00 46.95	7
MOTA	1270 h	JH2 ARG	A 161		35.648		68.598	1.00 34.58	6
ATOM	1271	ARG	A 161		34.113	19.076	69.357	1.00 33.77	8
ATOM) ARG	A 161		34.468	19.980	67.341	1.00 31.74	7
MOTA		1 ILE	A 162		33.741	19.280	07.341	1.00 29.83	6
ATOM		CA ILE	A 162		33.735	20.594	66.735	1.00 29.96	6
		B ILE	A 162		34.429	20.542	65.362	1.00 30.57	6
MOTA		CG2 ILE	A 162		34.580	21.942	64.784		6
MOTA		CG1 ILE	A 162		35.801	19.891	65.522	1.00 28.81	
MOTA		CD1 ILE	A 162		36.537	19.685	64.224	1.00 33.05	6
ATOM			A 162		32.300	21.050	66.560	1.00 29.66	6
ATOM			A 162		31.416	20.241	66.266	1.00 25.24	8
MOTA			J A 163		32.081	22.351	66.745	1.00 30.00	7 .
MOTA			J A 163		30.754	22.945	66.617	1.00 30.48	6
ATOM		CA LEU	7 2 163		30.236	23.406	67.992	1.00 32.25	6
MOTA		CB LEU	J A 163		28.934	24.229		1.00 31.21	6
MOTA		CG LEU	J A 163		27.804		67.326	1.00 31.58	6
MOTA	1285	CD1 LEG	J A 163		28.569		69.493	1.00 25.00	6
ATOM			J A 163		30.717			1.00 29.23	6
MOTA	1287	C LE	J A 163					1.00 29.72	8
ATOM	1288	O LE	U A 163		31.596		-	1.00 29.68	7
ATOM	1289	N TY	R A 164		29.675			1.00 29.89	6
ATOM	1290	CA TY	R A 164		29.500			1.00 27.81	6
ATOM	1291	CB TY	R A 164		29.512			1.00 27.79	6
MOTA	1292	CG TY	R A 164		29.377			1.00 24.82	6
ATOM	1293	CD1 TY	R A 164		30.390			1.00 24.51	6
MOTA	1294		R A 164		30.247			1.00 27.61	6
ATOM	1295	CD2 TY	R A 164		28.216			1.00 25.67	6
ATOM	1296	CE2 TY	R A 164		28.065	26.808			6
	1297	CZ TY	R A 164		29.078				8
ATOM	1298	OH TY	R A 164		28.898		58.506		6
MOTA	1299		R A 164		28.149	25.90			8
ATOM	1300	O TY	R A 164		27.119	25.22	64.277		7
ATOM	1301	N IL	E A 165		28.16	6 27.21	7 64.464	1.00 24.30	6
MOTA	1302	CA IL	E A 165		26.94	1 27.969	9 64.754		6
ATOM		CB IL	E A 165		26.98	5 28.64	9 66.143		6
MOTA	1303		E A 165		25.76				
ATOM	1304	CG2 IL	E A 165		27.03				6
ATOM	1305	CG1 IL	E A 165		27.18		1 68.650		6
MOTA	1306		E A 105		26.78			1.00 24.45	6
MOTA	1307		E A 165		27.60			1.00 23.17	8
MOTA	1308	o II	LE A 165		25.70			1.00 24.20	7
MOTA	1309	N AS	SP A 166		25.47			9 1.00 20.78	6
ATOM	1310	CA AS	SP A 166		25.31			3 1.00 17.64	6
ATOM	1311	CB AS	SP A 166						6
MOTA	1312	CG AS	SP A 166		25.41			1.00 20.20	8
ATOM		OD1 AS	SP A 166		24.53	• • • • • • • • • • • • • • • • • • • •			. 8
MOTA		DD2 AS	SP A 166		26.36) 6
ATOM		C A	SP A 166		24.29) 3
		3 A	SP A 166		23.13				7
ATOM		N L	EU A 167		24.58			·	
ATCM		CA L	EU A 167		23.53		62.25		
ATOM		CB L	EU A 167		23.96		63.28		
ATOM			EU A 167		24.36	54 33.46	53 64.67 -	4 1.00 20.7.	
MOTA					•				
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. mow .	1321	CD1 LEU A 167)	24.741	34.647		1.00 26.24	6
MOTA MOTA	1322	CD2 LEU A 167	1	23.225	32.661		1.00 23.45	6
		C LEU A 167	7	23.162	33.660		1.00 26.37	6
MOTA	1324	O LEU A 167		22.386	34.613	60.971	1.00 25.95	8
ATOM	1325	N ASP A 168		23.726	33.208	59.828	1.00 29.66	7
MOTA		CA ASP A 168		23.410	33.787	58.520	1.00 28.35	6
ATOM-	1326 1327	CB ASP A 168	Ŕ	24.057	32.987	57.390	1.00 33.29	6 .
ATOM		CG ASP A 168		23.937	33.676	56.037	1.00 35.38	6
ATOM	1328 1329	OD1 ASP A 168		24.892	34.388	55.659	1.00 39.48	8
MOTA		OD2 -ASP A 168	3	22.893	33.531	55.364	1.00 33.40	8
MOTA	1330 1331	C ASP A 168	B	21.906	33.614	58.408	1.00 28.74	6
ATOM	1332	O ASP A 16	B	21.354	32.648	58.948	1.00 26.21	8
ATOM	1333	N ALA A 16		21.239	34.524	57. 711 ⁻	1.00 26.16	7
ATOM	1334	CA ALA A 16		19.793	34.415	57.579	1.00 24.39	6
MOTA	1335	CB ALA A 16	9	19.233	35.640	56879	1.00 22.75	6
MOTA	1336	C ALA A 16	9	19.420	33.157	56.813	1.00 24.37	6 -
ATOM	1337	O ALA A 16		18.266	32.752	56.824	1.00 22.34	8
MOTA	1338	N HIS A 17	o	20.405	32.542	56.156	1.00 25.78	7
MOTA MOTA	1339	CA HIS A 17	0	20.180	31.327	55.375	1.00 25.20	6
ATOM	1340	CB HIS A 17	0	20.667	31.501	53.936	1.00 25.76	6
ATOM	1341	CG HIS A 17	0	20.122	32.711	53.245	1.00 29.08	6 6
MOTA	1342	CD2 HIS A 17		19.338	32.834	52.147	1.00 30.59	7
ATOM	1343	ND1 HIS A 17	0	20.384	33.995	53.675	1.00 30.77	6
MOTA	1344	CE1 HIS A 17	0	19.784	34.858	52.873	1.00 29.07	7
ATOM	1345	NE2 HIS A 17	0	19.143	34.180	51.939	1.00 32.19	6
ATOM	1346	C HIS A 17	0	20.895	30.113	55.958	1.00 26.00	8
ATOM	1347	0 HIS A 17		21.913	30.234	56.637	1.00 25.76	7
MOTA	1348	N HIS A 17	1	20.349	28.939	55.658	1.00 27.29 1.00 25.01	6
MOTA	1349	CA HIS A 17	1	20.893	27.655	56.090	1.00 24.93	6
ATOM	1350	CB HIS A 17	1 .	19.934	26.532	55.663	1.00 24.93	6
MOTA	1351	CG HIS A 17		20.468	25.148	55.889	1.00 28.30	6
ATOM	1352	CD2 HIS A 17	1	20.674	24.123	55.028	1.00 25.35	7
ATOM	1353	ND1 HIS A 17	1	20.823	24.678	57.137	1.00 22.68	6
ATOM	1354	CE1 HIS A 17	1	21.222	23.424	57.036	1.00 24.13	7
MOTA	1355	NE2 HIS A 17	11	21.140	23.062	55.767 55.471	1.00 24.74	6
ATOM	1356	C HIS A 17		22.267	27.413	54.356	1.00 28.22	8
ATOM	1357	O HIS A 17	71	22.540	27.863	56.190	1.00 23.03	7
ATOM	1358	N CYS A 17	12	23.131	26.705 26.389	55.683	1.00 23.41	6
MOTA	1359	CA CYS A 17	12	24.467	26.474	56.812	1.00 19.31	6
MOTA	1360	CB CYS A 17		25.497		58.318	1.00 16.78	16
MOTA	1361	SG CYS A 1		25.005 24.484		55.048	1.00 25.45	6
MOTA	1362	c CYS A 1	72 70	25.203		55.483	1.00 24.47	8
MOTA	1363	O CYS A 1	72	23.664		54.015	1.00 26.67	7
ATOM	1364	N ASP A 1	/3 73	23.542		53.269	1.00 26.47	6
MOTA	1365	CA ASP A 1		22.735			1.00 26.33	6
MOTA	1366	CB ASP A 1	 	23.281			1.00 27.06	6
MOTA	1367	CG ASP A 1	. ,	22.539			1.00 23.43	8
MOTA	1368	OD1 ASP A 1	, <u>)</u>	24.454	_		1.00 29.38	8
MOTA	1369	OD2 ASP A 1°C ASP A 1°C	73 73	24.872			1.00 26.65	6
MOTA	1370	C ASP A 1	73 73	24.940			1.00 28.38	8
MOTA	1371	O ASP A 1 N GLY A 1	73 71	25.926			1.00 25.24	7
ATOM	1372			27.227			1.00 23.11	6
MOTA	1373	CA GLY A 1 C GLY A 1	7 4 7 /	27.896			1.00 25.64	6
ATOM	1374		74 74	28.443			1.00 27.67	8
ATOM	1375	O GLY A I	75	27.848			1.00 24.29	7
ATCM	1376	N VAL A 1 CA VAL A 1		28.459			1.00 22.20	6
MOTA	1377			28.53			1.00 20.15	6
ATOM	1378	CB VAL A 1	75	29.44			1.00 20.11	6
MOTA	1379	CG1 VAL A 1	75	29.01			1.00 18.74	6
MOTA	1380	CG2 VAL A 1	75	27.64			1.00 22.85	6
ATCM	1381	_		28.17			1.00 20.07	8
ATOM	1382		76	26.35		4 56.203	1.00 24.12	7
ATOM	1383		76	25.51			1.00 27.18	6
atom	1384	4	76	24.04			; 1.00 32.86	
ATOM	1385	1	76	23.08				6
MOTA	1386	CG GLN A 1				•		
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ATOM 1388 ORE GLN À 176 ATOM 1399 NE2 GLN À 176 ATOM 1391 O GLN À 176 ATOM 1392 N GLU À 177 ATOM 1393 CA GLU À 177 ATOM 1393 CA GLU À 177 ATOM 1395 CG GLU À 177 ATOM 1396 CG GLU À 177 ATOM 1397 ATOM 1397 OEI GLU À 177 ATOM 1398 CG GLU À 177 ATOM 1396 CG GLU À 177 ATOM 1397 ATOM 1397 OEI GLU À 177 ATOM 1396 CG GLU À 177 ATOM 1397 ATOM 1397 OEI GLU À 177 ATOM 1396 CG GLU À 177 ATOM 1397 ATOM 1398 CG GLU À 177 ATOM 1397 ATOM 1398 CG GLU À 177 ATOM 1398 CG GLU À 177 ATOM 1398 CG GLU À 177 ATOM 1399 CG GLU À 177 ATOM 1398 CG GLU À 177 ATOM 1399 CG GLU À 177 ATOM 1399 CG GLU À 177 ATOM 1398 CG GLU À 177 ATOM 1398 CG GLU À 177 ATOM 1401 N ALÀ À 178 ATOM 1402 CÀ ÀLÀ À 178 ATOM 1403 CB ÀLÀ À 178 ATOM 1404 C ÀLÀ À 178 ATOM 1404 C ÀLÀ À 178 ATOM 1405 O ÀLÀ À 178 ATOM 1406 N PHE À 179 ATOM 1406 N PHE À 179 ATOM 1407 CA PHE À 179 ATOM 1408 CB PHE À 179 ATOM 1409 CG PHE À 179 ATOM 1409 CG PHE À 179 ATOM 1410 CD ÀLÀ À 178 ATOM 1409 CG PHE À 179 ATOM 1410 CD PHE À 179 ATOM 1410 CG PHE À 179 ATOM 1411 CCZ PHE À 179 ATOM 1411 CCZ PHE À 179 ATOM 1412 CCZ PHE À 179 ATOM 1412 CCZ PHE À 179 ATOM 1412 CCZ PHE À 179 ATOM 1413 CCZ PHE À 179 ATOM 1416 C PHE À 179 ATOM 1417 CA PHE À 179 ATOM 1416 C PHE À 179 ATOM 1417 CA PHE À 179 ATOM 1418 CA TYR À 180 ATOM 1418 CA TYR À 180 ATOM 1419 CB PHE À 179 ATOM 1416 C PHE À 179 ATOM 1416 C PHE À 179 ATOM 1417 CA PHE À 179 ATOM 1418 CCZ PHE À 179 ATOM 1418 CA TYR À 180 ATOM 1419 CG PHE À 179 ATOM 1410 CB ÀLÀ À 188 ATOM 1410 CD PHE À 179 ATOM 1410 CB ÀLÀ À 188 ATOM 1410 CD PHE À 179 ATOM 1410 CD PHE À 17	MOTA	1387 C							1.00 38	3.59	
ATOM 1390 C GIN A 176	ATOM							_			
ATOM 1390 C GLN A 176 ATOM 1392 N GLU A 177 ATOM 1393 CA GLU A 177 ATOM 1394 CB GLU A 177 ATOM 1395 CG GLU A 177 ATOM 1395 CG GLU A 177 ATOM 1395 CG GLU A 177 ATOM 1396 CD GLU A 177 ATOM 1396 CD GLU A 177 ATOM 1396 CD GLU A 177 ATOM 1397 OEI GLU A 177 ATOM 1397 OEI GLU A 177 ATOM 1397 OEI GLU A 177 ATOM 1398 CD GLU A 177 ATOM 1399 CD GLU A 177 ATOM 1400 N 1384 N 178 ATOM 1401 N ALA 178 ATOM 1401 N ALA 178 ATOM 1402 CA ALA A 178 ATOM 1403 CB ALA A 178 ATOM 1404 C ALA A 178 ATOM 1405 N PHE A 179 ATOM 1406 N PHE A 179 ATOM 1407 CA PHE A 179 ATOM 1408 CB PHE A 179 ATOM 1408 CB PHE A 179 ATOM 1409 CG PHE A 179 ATOM 1401 CDL PHE A 179 ATOM 1402 CD ALA 178 ATOM 1403 CD ALA 178 ATOM 1404 CDL PHE A 179 ATOM 1406 N PHE A 179 ATOM 1407 CA PHE A 179 ATOM 1408 CB PHE A 179 ATOM 1408 CB PHE A 179 ATOM 1409 CG PHE A 179 ATOM 1401 CDL PHE A 179 ATOM 1402 CD ATOM 1401 CDL PHE A 179 ATOM 1403 CB ALA 178 ATOM 1404 CD PHE A 179 ATOM 1405 CD PHE A 179 ATOM 1406 CD PHE A 179 ATOM 1407 CD PHE A 179 ATOM 1408 CB PHE A 179 ATOM	ATOM								1.00 27	7.70	6
ATOM 1391 N GLU A 177 26.323 18.19.19 4 54.519 1.00 27.96 7 ATOM 1393 CB GLU A 177 26.333 18.052 53.698 1.00 31.16 6 ATOM 1395 CB GLU A 177 26.323 17.255 17.256 1.287 1.00 36.20 6 ATOM 1395 CD GLU A 177 26.273 17.256 49.818 1.00 40.70 6 ATOM 1396 CD GLU A 177 27.322 17.967 49.234 1.00 36.20 6 ATOM 1397 OEZ GLU A 177 27.322 17.967 49.234 1.00 36.20 6 ATOM 1399 OEZ GLU A 177 27.325 17.967 49.234 1.00 31.36 6 ATOM 1399 OEZ GLU A 177 27.326 16.317 54.356 1.00 31.39 6 ATOM 1399 OEZ GLU A 177 27.7866 18.419 54.356 1.00 31.62 6 ATOM 1400 O GLU A 177 27.866 18.419 54.356 1.00 31.39 7 ATOM 1401 N ALA A 178 30.204 17.135 55.897 1.00 31.63 6 ATOM 1402 CB ALA A 178 30.204 17.135 55.897 1.00 30.56 6 ATOM 1404 C B ALA A 178 30.204 17.135 55.897 1.00 30.56 6 ATOM 1405 O ALA A 178 30.204 17.135 55.897 1.00 30.56 6 ATOM 1406 C PHE A 179 29.540 16.555 .897 1.00 30.53 6 ATOM 1407 CA PHE A 179 29.540 16.656 .961 1.00 31.34 6 ATOM 1408 CB PHE A 179 30.147 17.552 59.310 1.00 31.36 6 ATOM 1409 CG PHE A 179 30.527 17.552 59.310 1.00 31.36 6 ATOM 1409 CG PHE A 179 31.189 18.505 88.856 1.00 22.75 6 ATOM 1401 CDL PHE A 179 30.827 19.790 16.656 .961 1.00 31.34 6 ATOM 1402 CD A HE A 179 31.189 18.505 88.856 1.00 22.74 6 ATOM 1403 CB PHE A 179 30.827 19.790 16.656 .961 1.00 31.34 6 ATOM 1405 CD PHE A 179 31.787 20.688 57.988 1.00 26.68 6 ATOM 1410 CDL PHE A 179 31.787 20.688 57.988 1.00 26.68 6 ATOM 1411 CDL PHE A 179 31.787 20.688 57.988 1.00 27.78 6 ATOM 1412 CEL PHE A 179 31.787 20.688 57.988 1.00 27.78 6 ATOM 1413 CCZ PHE A 179 31.787 10.00 35.83 6 ATOM 1416 CD PHE A 179 31.787 20.688 57.988 1.00 27.78 6 ATOM 1416 CD PHE A 179 32.522 18.124 58.766 1.00 32.06 6 ATOM 1412 CEL PHE A 179 31.788 20.688 57.988 1.00 26.68 6 ATOM 1412 CEL PHE A 179 31.788 20.688 57.988 1.00 28.67 6 ATOM 1410 CD PHE A 179 32.522 18.124 58.766 1.00 32.06 6 ATOM 1410 CD PHE A 179 31.788 20.688 57.988 1.00 28.67 6 ATOM 1410 CD PHE A 179 32.522 18.124 58.766 1.00 32.06 6 ATOM 1420 CD ASP A 181 27.538 18.89 1.00 40.28 6 ATOM 1421 CD TYR A 180 22.988 18.292 15.543 57.	MOTA								1.00 26	5.89	
ATOM 1393 CA GLU A 177 26 343 18.062 53.698 1.00 31.16 6 ATOM 1395 CG GLU A 177 26 353 17.256 51.287 1.00 30.37 6 ATOM 1395 CD GLU A 177 26 353 17.626 49.284 1.00 40.70 6 ATOM 1396 CD GLU A 177 26.25 15.51 17.626 49.284 1.00 40.70 6 ATOM 1397 OEI GLU A 177 27.702 17.516 54.137 1.00 31.66 6 ATOM 1399 C GLU A 177 27.702 17.516 54.137 1.00 31.66 6 ATOM 1409 C GLU A 177 27.868 16.317 54.287 1.00 32.81 8 ATOM 1401 N ALA A 178 28.663 18.419 54.287 1.00 31.66 6 ATOM 1402 CA ALA A 178 30.026 18.072 54.673 1.00 31.63 6 ATOM 1403 CB ALA A 178 30.830 19.338 54.855 1.00 30.96 6 ATOM 1404 C ALA A 178 30.830 19.338 54.855 1.00 30.66 6 ATOM 1405 O ALA A 178 30.830 19.338 54.855 1.00 30.66 6 ATOM 1406 N PHE A 179 29.590 16.655 58.897 1.00 30.63 6 ATOM 1408 CB PHE A 179 29.590 16.655 58.897 1.00 30.63 6 ATOM 1409 CC PHE A 179 29.590 16.655 58.184 1.00 31.34 6 ATOM 1409 CC PHE A 179 30.147 17.532 59.310 1.00 30.13 6 ATOM 1409 CC PHE A 179 30.827 19.790 58.466 1.00 22.824 6 ATOM 1410 CD PHE A 179 30.827 19.790 58.466 1.00 28.23 6 ATOM 1410 CD PHE A 179 30.827 19.790 58.466 1.00 28.33 6 ATOM 1410 CD PHE A 179 31.788 20.688 57.988 1.00 26.83 6 ATOM 1410 CD PHE A 179 31.789 20.688 57.988 1.00 26.83 6 ATOM 1410 CD PHE A 179 31.578 20.688 57.988 1.00 26.67 6 ATOM 1410 CD PHE A 179 31.578 20.688 57.988 1.00 26.67 6 ATOM 1410 CD PHE A 179 31.578 20.688 57.988 1.00 26.67 6 ATOM 1410 CD PHE A 179 31.578 20.688 57.988 1.00 28.03 6 ATOM 1410 CD PHE A 179 31.578 20.688 57.988 1.00 28.03 6 ATOM 1410 CD PHE A 179 31.578 20.688 57.988 1.00 28.07 8 ATOM 1410 CD PHE A 179 31.578 20.688 57.988 1.00 28.67 6 ATOM 1410 CD PHE A 179 31.578 20.688 57.988 1.00 28.67 6 ATOM 1410 CD PHE A 179 31.578 20.688 57.988 1.00 28.67 6 ATOM 1410 CD PHE A 179 31.589 18.505 58.886 1.00 32.06 6 ATOM 1420 CD TYR A 180 25.062 18.005 58.886 1.00 32.06 6 ATOM 1421 CD TYR A 180 25.062 18.005 58.886 1.00 32.06 6 ATOM 1421 CD TYR A 180 25.062 18.005 58.886 1.00 32.06 6 ATOM 1422 CD TYR A 180 25.062 18.005 58.896 1.00 37.91 6 ATOM 1423 CD ASP A 181 28.381 11.656 58.59 1.00 41			GLN A	177			9.194		1.00 27	7.96	
ATOM 1399 CB GIU A 177 26,353 17,256 51,287 1.00 36.20 6 6 6 6 6 6 7 7 7 26,353 17,256 51,287 1.00 36.20 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			GLU A	177					1.00 33	1.16	
ATOM 1395 CG GLU A 177 26.273 17.256 51.287 1.00 36.20 6 7 ATOM 1397 OEI GLU A 177 26.273 17.626 49.818 1.00 40.70 6 8 ATOM 1397 OEI GLU A 177 27.322 17.967 49.234 1.00 46.78 8 ATOM 1398 OCZ GLU A 177 27.702 17.516 54.137 1.00 31.66 6 ATOM 1399 C GLU A 177 27.702 17.516 54.137 1.00 31.66 6 ATOM 1400 O GLU A 177 27.7868 16.317 54.356 1.00 32.81 8 ATOM 1401 N ALA A 178 30.026 18.072 54.673 1.00 31.66 6 ATOM 1402 CA ALA A 178 30.026 18.072 54.673 1.00 31.66 6 ATOM 1403 CB ALA A 178 30.026 18.072 54.673 1.00 31.39 7 ATOM 1401 CD ALA A 178 30.026 18.072 54.673 1.00 31.65 6 ATOM 1405 C ALA A 178 30.026 17.185 55.897 1.00 30.96 6 ATOM 1406 N PHE A 179 29.590 16.656 58.184 1.00 31.01 6 ATOM 1408 CB PHE A 179 29.590 16.656 58.184 1.00 31.03 1.01 ATOM 1408 CB PHE A 179 31.189 18.505 58.858 1.00 27.78 6 ATOM 1400 CD PHE A 179 31.189 18.505 58.858 1.00 27.78 6 ATOM 1410 CD PHE A 179 31.189 18.505 58.858 1.00 27.89 6 ATOM 1410 CD PHE A 179 31.39 18.505 58.858 1.00 27.89 6 ATOM 1411 CD2 PHE A 179 31.39 18.505 58.858 1.00 27.89 6 ATOM 1411 CD2 PHE A 179 31.39 18.505 58.858 1.00 28.24 6 ATOM 1411 CD2 PHE A 179 31.39 18.505 58.858 1.00 28.24 6 ATOM 1412 CEI PHE A 179 31.39 18.505 58.858 1.00 28.24 6 ATOM 1414 CZ PHE A 179 31.39 18.505 58.858 1.00 28.26 6 ATOM 1415 C PHE A 179 33.417 20.300 57.895 1.00 28.67 6 ATOM 1415 C PHE A 179 33.487 19.013 58.285 1.00 28.67 6 ATOM 1415 C PHE A 179 33.487 19.013 58.285 1.00 28.67 6 ATOM 1415 C PHE A 179 33.487 19.013 58.285 1.00 28.67 6 ATOM 1415 C PHE A 179 33.487 19.013 58.285 1.00 28.67 6 ATOM 1415 C PHE A 179 33.487 19.013 58.285 1.00 28.67 6 ATOM 1415 C PHE A 179 33.487 19.013 58.285 1.00 28.67 6 ATOM 1416 C PHE A 179 33.487 19.013 58.285 1.00 28.67 6 ATOM 1416 C PHE A 179 33.487 19.013 58.285 1.00 28.67 6 ATOM 1416 C PHE A 179 33.487 19.013 58.285 1.00 28.67 6 ATOM 1416 C PHE A 179 33.487 19.013 58.285 1.00 28.67 6 ATOM 1416 C PHE A 179 33.487 19.013 58.285 1.00 28.67 6 ATOM 1416 C PHE A 179 33.487 19.013 58.898 1.00 28.67 6 ATOM 1416 C PHE A 179 33.487 19.013 58.898 1.00 28.67 6 ATOM			A GLU A	177				52.220	1.00 30	0.37	
ATOM 1396 CD GIU A 177									1.00 3	6.20	
ATOM 1397 OEI GLU A 177			A ULD GE	177		73			1.00 4	0.70	
ATOM 1398 OCZ GLU A 177			E1 GLU A		27.3	22			1.00 4	6./8 0.20	
ATOM 1409 C GLU A 177			E2 GLU A	177					1.00 3	9.39 1.66	
ATOM 1400 O GLU A 177			GLU A	177					1.00 3	2 81	
ATOM 1401 N ALA A 178									1 00 3	3.39	
ATOM 1403 CB ALA A 178 ATOM 1404 C ALA A 178 ATOM 1405 O ALA A 178 ATOM 1406 N PHE A 179 ATOM 1406 N PHE A 179 ATOM 1407 CA PHE A 179 ATOM 1408 CB PHE A 179 ATOM 1409 CG PHE A 179 ATOM 1400 CG PHE A 179 ATOM 1401 CD1 PHE A 179 ATOM 1410 CD1 PHE A 179 ATOM 1411 CD1 PHE A 179 ATOM 1411 CD2 PHE A 179 ATOM 1412 CE1 PHE A 179 ATOM 1413 CE2 PHE A 179 ATOM 1415 C PHE A 179 ATOM 1416 CD PHE A 179 ATOM 1417 N TYR A 180 ATOM 1417 N TYR A 180 ATOM 1418 CA TYR A 180 ATOM 1419 CB TYR A 180 ATOM 1419 CB TYR A 180 ATOM 1410 CT TYR A 180 ATOM 1411 CCT TYR A 180 ATOM 1412 CE2 TYR A 180 ATOM 1412 CE2 TYR A 180 ATOM 1413 CB2 TYR A 180 ATOM 1416 CD TYR A 180 ATOM 1417 N TYR A 180 ATOM 1418 CB TYR A 180 ATOM 1419 CB TYR A 180 ATOM 1410 CB TYR A 180 ATOM 1411 CCT TYR A 180 ATOM 1412 CE2 TYR A 180 ATOM 1412 CE2 TYR A 180 ATOM 1413 CB2 TYR A 180 ATOM 1413 CB2 TYR A 180 ATOM 1416 CD TYR A 180 ATOM 1417 N TYR A 180 ATOM 1418 CB TYR A 180 ATOM 1419 CB TYR A 180 ATOM 1410 CB TYR A 180 ATOM 1410 CB TYR A 180 ATOM 1412 CCE1 TYR A 180 ATOM 1412 CCE1 TYR A 180 ATOM 1412 CCE1 TYR A 180 ATOM 1413 CB2 TYR A 180 ATOM 1414 CCE2 TYR A 180 ATOM 1415 CB3 TYR A 180 ATOM 1416 CB4 TYR A 180 ATOM 1417 N TYR A 180 ATOM 1418 CB TYR A 180 ATOM 1418 CB TYR A 180 ATOM 1419 CB TYR A 180 ATOM 1410 CB TYR A 180 ATOM 1410 CB TYR A 180 ATOM 1411 CB3 CC TYR A 180 ATOM 1412 CB1 TYR A 180 ATOM 1413 CB2 AFF A 181 ATOM 1414 CCE2 TYR A 180 ATOM 1415 CB3 TYR A 180 ATOM 1416 CB4 TYR A 180 ATOM 1417 N TYR A 180 ATOM 1418 CB TYR A 180 ATOM 1420 CC TYR A 180 ATOM 1421 CD1 TYR A 180 ATOM 1422 CC TYR A 180 ATOM 1423 CD2 AFF A 181 ATOM 1424 CB2 TYR A 180 ATOM 1426 CB3 TYR A 180 ATOM 1427 C TYR A 180 ATOM 1428 C TYR A 180 ATOM 1429 CD AFF A 181 ATOM 1430 CA AFF A 181 ATOM 1431 CB3 AFF A 181 ATOM 1432 CD2 AFF A 181 ATOM 1434 CD2 AFF A 181 ATOM 1436 C AFF A 181 ATOM 1437 N THR A 182 ATOM 1448 C CG THR A 182 ATOM 1449 CD2 AFF		1401						54 573	1.00 3	1.63	
ATOM 1404 C ALAA A 178 30.204 17.85 55.897 1.00 30.63 6 ALAA A 178 30.204 17.85 55.876 1.00 30.63 6 ATOM 1405 O ALAA A 178 31.032 16.276 55.876 1.00 31.01 7 ATOM 1406 N PHE A 179 29.590 16.656 58.184 1.00 31.34 6 ATOM 1407 CA PHE A 179 30.8147 17.532 59.310 1.00 30.13 6 ATOM 1408 CB PHE A 179 30.827 19.790 58.685 1.00 27.78 6 ATOM 1409 CG PHE A 179 30.827 19.790 58.666 1.00 28.24 6 ATOM 1410 CD1 PHE A 179 30.827 19.790 58.666 1.00 28.24 6 ATOM 1411 CD2 PHE A 179 31.778 20.668 57.988 1.00 26.668 6 ATOM 1412 CE1 PHE A 179 31.778 20.668 57.988 1.00 26.668 6 ATOM 1413 CE2 PHE A 179 33.111 20.300 57.895 1.00 28.67 6 ATOM 1416 C PHE A 179 28.218 15.542 59.803 1.00 30.58 8 ATOM 1416 O PHE A 179 28.218 15.542 59.803 1.00 30.425 7 ATOM 1418 CA TYR A 180 27.305 15.960 57.787 1.00 34.25 7 ATOM 1419 CB TYR A 180 25.062 15.665 56.991 1.00 38.99 6 ATOM 1420 CG TYR A 180 25.062 15.665 56.991 1.00 38.99 6 ATOM 1421 CD1 TYR A 180 22.938 14.232 57.064 1.00 37.91 6 ATOM 1422 CD1 TYR A 180 22.938 14.232 57.064 1.00 37.91 6 ATOM 1423 CD2 TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1424 CD1 TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1425 C TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1426 CD TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1426 CD TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1426 CD TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1426 CD TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1426 CD TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1426 CD TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1426 CD TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1426 CD TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1427 C TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1426 CD TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1427 C TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1426 CD TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1427 C TYR A 180 22.938 14.232 57.064 1.00 37.92 6 ATOM 1426 CD TYR A 180 22.938 14.00 40.92 6 ATOM 1427 C TYR A 180 22.938 14.00 40.93 6 ATOM 1426 CD TYR A 180 22.938			CA ALA A	178							6
ATOM 1405 O ALA A 178	MOTA			178					1.00 3	0.63	
ATOM 1406 N PHE A 179											
ATOM 1407 CA PHE A 179			ALA N	179			17.444		1.00 3	1.01	
ATOM 1408 CB PHE A 179 ATOM 1409 CG PHE A 179 ATOM 1410 CD1 PHE A 179 ATOM 1410 CD1 PHE A 179 ATOM 1411 CD2 PHE A 179 ATOM 1412 CD1 PHE A 179 ATOM 1414 CZ PHE A 179 ATOM 1414 CZ PHE A 179 ATOM 1415 C PHE A 179 ATOM 1416 CD PHE A 179 ATOM 1416 CD2 PHE A 179 ATOM 1417 N TYR A 180 ATOM 1418 CA TYR A 180 ATOM 1419 CB TYR A 180 ATOM 1420 CD1 TYR A 180 ATOM 1421 CD1 TYR A 180 ATOM 1421 CD1 TYR A 180 ATOM 1422 CD1 TYR A 180 ATOM 1423 CD2 TYR A 180 ATOM 1424 CE2 TYR A 180 ATOM 1425 CZ TYR A 180 ATOM 1426 OH TYR A 180 ATOM 1427 C TYR A 180 ATOM 1428 O TYR A 180 ATOM 1427 C TYR A 180 ATOM 1428 O TYR A 180 ATOM 1439 N ASP A 181 ATOM 1430 CA ASP A 181 ATOM 1431 CB ASP A 181 ATOM 1433 CD1 ASP A 181 ATOM 1430 CA ASP A 181 ATOM 1431 CB ASP A 181 ATOM 1430 CA ASP A 181 ATOM 1431 CB THR A 182 ATOM 1433 CD THR A 182 ATOM 1434 CB THR A 183 ATOM 1435 C THR A 183 ATOM 1436 CA ASP A 181 ATOM 1437 N THR A 182 ATOM 1438 CB THR A 182 ATOM 1444 CB THR A 183 ATOM 1445 CA ASP A 181 ATOM 1446 CB ASP A 181 ATOM 1447 CB THR A 182 ATOM 1447 CB ASP A 181 ATOM 1448 CA SP A 181 ATOM 1449 CB THR A 182 ATOM 1440 CG1 THR A 183 ATOM 1441 CD1 THR A 183 ATOM 1442 CC2 THR A 183 ATOM 1443 CD2 TYR A 183 ATOM 1446 CB ASP A 181 ATOM 1447 CA ASP A 181 ATOM 1448 CA THR A 183 ATOM 1448 CA THR A 183 ATOM 1449 CD2 ASP A 181 ATOM 1440 CG1 THR A 183 ATOM 1444 CC2 THR A 183 ATOM 1446 CB ASP A 181 ATOM 1446 CB ASP A 181 ATOM 1447 CG ASP A 181 ATOM 1448 CA THR A 182 ATOM 1449 CD ASP A 181 ATOM 1449 CD ASP A 181 ATOM 1449 CD ASP A 183 ATOM 1440 CC2 THR A 183 ATOM 1440 CC2 THR A 183 ATOM 1444 CC2 THR A 183 ATOM 1446 CC2 THR A 183 ATOM 1446 CC2 THR A 183 ATOM 1447 CC2 ASP A 183 ATOM 1448 CC2 THR A 183 ATOM 1449 CC2 ASP			DHE A	179			16.656				
ATOM 1409 CG PHE A 179 30.827 19.790 58.466 1.00 28.24 6 ATOM 1411 CD2 PHE A 179 30.827 19.790 58.466 1.00 28.34 6 ATOM 1411 CD2 PHE A 179 31.778 20.688 57.988 1.00 28.68 6 ATOM 1413 CE2 PHE A 179 31.778 20.688 57.988 1.00 28.679 6 ATOM 1413 CE2 PHE A 179 33.111 20.300 57.895 1.00 28.679 6 ATOM 1414 CZ PHE A 179 33.111 20.300 57.895 1.00 28.679 6 ATOM 1415 C PHE A 179 28.200 16.003 58.664 1.00 32.06 6 ATOM 1416 O PHE A 179 28.218 15.542 59.803 1.00 30.58 8 ATOM 1416 O PHE A 179 28.218 15.542 59.803 1.00 30.58 8 ATOM 1417 N TYR A 180 27.305 15.960 57.787 1.00 34.25 7 ATOM 1418 CA TYR A 180 25.062 15.605 56.911 1.00 38.60 6 ATOM 1421 CD1 TYR A 180 22.938 14.232 57.064 1.00 37.91 6 ATOM 1422 CE1 TYR A 180 22.938 14.232 57.064 1.00 37.91 6 ATOM 1422 CE1 TYR A 180 22.938 14.232 57.064 1.00 37.91 6 ATOM 1423 CD2 TYR A 180 22.938 14.103 57.373 1.00 39.20 6 ATOM 1424 CE2 TYR A 180 22.938 14.103 57.373 1.00 39.20 6 ATOM 1425 CZ TYR A 180 22.861 16.543 57.694 1.00 37.56 6 ATOM 1426 OH TYR A 180 22.861 16.543 57.694 1.00 37.56 6 ATOM 1427 C TYR A 180 21.518 16.430 57.7694 1.00 37.56 6 ATOM 1426 OH TYR A 180 20.882 15.211 57.848 1.00 43.41 8 ATOM 1426 OH TYR A 180 20.882 15.211 57.848 1.00 43.41 8 ATOM 1426 OH TYR A 180 20.882 15.211 57.848 1.00 43.41 8 ATOM 1427 C TYR A 180 20.882 15.211 57.848 1.00 43.41 8 ATOM 1426 OH TYR A 180 20.882 15.211 57.848 1.00 43.41 8 ATOM 1427 C ATOM 1429 N ASPA 181 27.638 11.994 58.680 1.00 39.27 8 ATOM 1430 CA ASPA 181 28.830 10.050 57.436 1.00 59.47 8 ATOM 1431 CB ASPA 181 27.638 11.994 58.680 1.00 44.75 6 ATOM 1434 OD2 ASPA 181 28.830 10.050 57.436 1.00 59.47 8 ATOM 1434 OD2 ASPA 181 28.348 9.221 56.629 1.00 60.73 8 ATOM 1434 OD2 ASPA 181 28.348 9.221 56.629 1.00 40.12 6 ATOM 1434 OD2 ASPA 181 28.348 9.221 56.629 1.00 40.12 6 ATOM 1434 OD3 ASPA 181 28.348 9.221 56.629 1.00 40.12 6 ATOM 1434 OD3 ASPA 181 28.348 9.221 56.629 1.00 40.12 6 ATOM 1434 OD3 ASPA 181 28.348 9.221 56.600 1.00 44.75 6 ATOM 1434 OD3 ASPA 183 30.100 10.723 66.433 1.00 42.53 8 ATOM 1444 OD3 ASPA 183 30.206 65.550 1.00			CB PHE A	179							
ATOM 1410 CD1 PHE A 179 ATOM 1411 CD2 PHE A 179 ATOM 1412 CD1 PHE A 179 ATOM 1412 CD1 PHE A 179 ATOM 1413 CD2 PHE A 179 ATOM 1413 CD2 PHE A 179 ATOM 1414 CD2 PHE A 179 ATOM 1415 C PHE A 179 ATOM 1415 C PHE A 179 ATOM 1415 C PHE A 179 ATOM 1416 O PHE A 179 ATOM 1417 N TYR A 180 ATOM 1418 CA TYR A 180 ATOM 1419 CB TYR A 180 ATOM 1419 CB TYR A 180 ATOM 1420 CG TYR A 180 ATOM 1421 CD1 TYR A 180 ATOM 1421 CD1 TYR A 180 ATOM 1422 CE1 TYR A 180 ATOM 1424 CE2 TYR A 180 ATOM 1424 CE2 TYR A 180 ATOM 1425 CZ TYR A 180 ATOM 1426 OH TYR A 180 ATOM 1427 C TYR A 180 ATOM 1428 O TYR A 180 ATOM 1429 N ASP A 181 ATOM 1430 CA ASP A 181 ATOM 1431 CB ASP A 181 ATOM 1433 OD1 ASP A 181 ATOM 1436 CA THR A 182 ATOM 1437 C ASP A 181 ATOM 1436 CA THR A 182 ATOM 1437 C THR A 182 ATOM 1438 CA THR A 180 ATOM 14410 CB ASP A 181 ATOM 1430 CA ASP A 181 ATOM 1431 CB ASP A 183 ATOM 1434 CB THR A 182 ATOM 1436 CA THR A 182 ATOM 1437 C THR A 182 ATOM 1438 CA THR A 183 ATOM 1439 CB THR A 183 ATOM 1440 CG TYR A 183 ATOM 1441 CB2 THR A 183 ATOM 1442 CB THR A 183 ATOM 1443 CD2 ASP A 181 ATOM 1443 CD3 ASP A 181 ATOM 1444 CC3 THR A 182 ATOM 1444 CC3 THR A 183 ATOM 1445 CC3 ASP A 183 ATOM 1446 CC3 ASP A 183			CG PHE A	. 179			18.505		1.00 3	27.70	
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ATOM 1425 CZ TYR A 180									1.00	40.28	
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ATOM 1432 CG ASP A 181 29.637 9.750 58.345 1.00 59.47 8 ATOM 1433 OD1 ASP A 181 29.637 9.750 56.629 1.00 60.73 8 ATOM 1434 OD2 ASP A 181 28.348 9.221 56.629 1.00 60.73 8 ATOM 1435 C ASP A 181 28.398 11.665 59.804 1.00 44.75 6 ATOM 1435 C ASP A 181 28.257 10.568 60.350 1.00 44.69 8 ATOM 1436 O ASP A 181 28.257 10.568 60.350 1.00 44.69 8 ATOM 1437 N THR A 182 29.975 12.337 61.495 1.00 39.51 6 ATOM 1438 CA THR A 182 29.975 12.337 61.495 1.00 39.51 6 ATOM 1440 OG1 THR A 182 31.408 12.881 61.355 1.00 39.19 6 ATOM 1441 CG2 THR A 182 31.395 14.397 61.232 1.00 40.12 6 ATOM 1442 C THR A 182 29.370 12.910 62.759 1.00 38.58 6 ATOM 1443 O THR A 182 29.370 12.910 62.759 1.00 38.58 6 ATOM 1444 N ASP A 183 29.712 12.304 63.890 1.00 37.39 7 ATOM 1445 CA ASP A 183 29.211 12.773 65.171 1.00 39.24 6 ATOM 1445 CA ASP A 183 29.211 12.773 65.171 1.00 39.24 6 ATOM 1446 CB ASP A 183 30.010 10.723 66.433 1.00 41.64 6 ATOM 1448 OD1 ASP A 183 30.010 10.723 66.433 1.00 41.64 6 ATOM 1449 OD2 ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1449 OD2 ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1449 OD2 ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1445 O ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1445 O ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1445 O ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1445 O ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1445 O ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1445 O ASP A 183 30.286 13.830 65.154 1.00 39.29 7			CB ASP	A 181			11.48/			56.84	
ATOM 1433 OD1 ASP A 181 ATOM 1434 OD2 ASP A 181 ATOM 1435 C ASP A 181 ATOM 1435 C ASP A 181 ATOM 1436 O ASP A 181 ATOM 1437 N THR A 182 ATOM 1438 CA THR A 182 ATOM 1439 CB THR A 182 ATOM 1440 OG1 THR A 182 ATOM 1441 CG2 THR A 182 ATOM 1443 O THR A 182 ATOM 1444 N ASP A 183 ATOM 1445 CA ASP A 183 ATOM 1446 CB ASP A 183 ATOM 1446 CB ASP A 183 ATOM 1447 CG ASP A 183 ATOM 1448 OD1 ASP A 183 ATOM 1448 OD1 ASP A 183 ATOM 1449 OD2 ASP A 183 ATOM 1450 C ASP A 183 ATOM 1450 C ASP A 183 ATOM 1451 O ASP A 183 ATOM 1452 O ASP A 183 ATOM 1455			CG ASP	A 181						59.47	8
ATOM 1434 OD2 ASP A 181 28.398 11.665 59.804 1.00 44.75 6 ATOM 1436 O ASP A 181 28.257 10.568 60.350 1.00 44.69 8 ATOM 1437 N THR A 182 29.194 12.606 60.298 1.00 41.26 7 ATOM 1438 CA THR A 182 31.408 12.881 61.355 1.00 39.51 6 ATOM 1440 OG1 THR A 182 32.171 12.508 62.505 1.00 37.82 8 ATOM 1440 CG2 THR A 182 31.395 14.397 61.232 1.00 40.12 6 ATOM 1441 CG2 THR A 182 29.370 12.910 62.759 1.00 38.58 6 ATOM 1442 C THR A 182 29.370 12.910 62.759 1.00 38.58 6 ATOM 1444 N ASP A 183 29.371 12.304 63.890 1.00 37.39 7 ATOM 1444 N ASP A 183 29.211 12.773 65.171 1.00 39.24 6 ATOM 1445 CA ASP A 183 29.211 12.773 65.171 1.00 39.24 6 ATOM 1446 CB ASP A 183 30.010 10.723 66.433 1.00 40.31 6 ATOM 1448 OD1 ASP A 183 30.010 10.723 66.433 1.00 41.64 6 ATOM 1449 OD2 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1449 OD2 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1450 C ASP A 183 30.226 13.621 65.853 1.00 40.34 6 ATOM 1450 C ASP A 183 30.226 13.621 65.853 1.00 40.34 6 ATOM 1450 C ASP A 183 30.226 13.621 65.853 1.00 40.34 6 ATOM 1450 C ASP A 183 30.226 13.621 65.853 1.00 40.34 6 ATOM 1450 C ASP A 183 30.226 13.621 65.853 1.00 40.34 6 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07			OD1 ASP	A 181					1.00	60.73	
ATOM 1436 O ASP A 181 28.257 10.568 60.350 1.00 44.69 8 ATOM 1436 O ASP A 181 29.194 12.606 60.298 1.00 41.26 7 ATOM 1437 N THR A 182 29.975 12.337 61.495 1.00 39.51 6 ATOM 1438 CA THR A 182 31.408 12.881 61.355 1.00 39.19 6 ATOM 1439 CB THR A 182 31.408 12.881 61.355 1.00 39.19 6 ATOM 1440 CG1 THR A 182 32.171 12.508 62.505 1.00 37.82 8 ATOM 1441 CG2 THR A 182 31.395 14.397 61.232 1.00 40.12 6 ATOM 1442 C THR A 182 29.370 12.910 62.759 1.00 38.58 6 ATOM 1443 O THR A 182 29.370 12.910 62.759 1.00 38.58 6 ATOM 1444 N ASP A 183 29.712 12.304 63.890 1.00 37.39 7 ATOM 1445 CA ASP A 183 29.211 12.773 65.171 1.00 39.24 6 ATOM 1446 CB ASP A 183 29.211 12.773 65.171 1.00 39.24 6 ATOM 1447 CG ASP A 183 30.010 10.723 66.433 1.00 41.64 6 ATOM 1448 OD1 ASP A 183 30.010 10.723 66.433 1.00 41.64 6 ATOM 1449 OD2 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1449 OD2 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1450 C ASP A 183 30.226 13.621 65.853 1.00 40.34 6 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 31.400 13.830 65.154 1.00 39.29 7			OD2 ASP	A 101				59.804	1.00		
ATOM 1437 N THR A 182 29.194 12.606 60.298 1.00 41.26 7			C ASP	A 181	28.	257		60.350		44.69	
ATOM 1438 CA THR A 182 29.975 12.337 61.495 1.00 39.51 6 ATOM 1439 CB THR A 182 31.408 12.881 61.355 1.00 39.19 6 ATOM 1440 CG1 THR A 182 32.171 12.508 62.505 1.00 37.82 8 ATOM 1441 CG2 THR A 182 31.395 14.397 61.232 1.00 40.12 6 ATOM 1442 C THR A 182 29.370 12.910 62.759 1.00 38.58 6 ATOM 1443 O THR A 182 28.609 13.876 62.716 1.00 41.24 8 ATOM 1444 N ASP A 183 29.712 12.304 63.890 1.00 37.39 7 ATOM 1445 CA ASP A 183 29.712 12.304 63.890 1.00 37.39 7 ATOM 1446 CB ASP A 183 29.211 12.773 65.171 1.00 39.24 6 ATOM 1446 CB ASP A 183 30.010 10.723 66.433 1.00 40.31 6 ATOM 1447 CG ASP A 183 30.010 10.723 66.433 1.00 41.64 6 ATOM 1448 OD1 ASP A 183 30.725 10.268 65.520 1.00 42.53 8 ATOM 1449 OD2 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1450 C ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1450 C ASP A 183 30.226 13.621 65.853 1.00 40.34 6 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 31.400 13.830 65.154 1.00 39.29 7			N THR	A 182	29.	194	12.606			41.26	
ATOM 1439 CB THR A 182 31.408 12.881 61.333 1.00 37.82 8 ATOM 1440 OG1 THR A 182 32.171 12.508 62.505 1.00 37.82 8 ATOM 1441 CG2 THR A 182 31.395 14.397 61.232 1.00 40.12 6 ATOM 1442 C THR A 182 29.370 12.910 62.759 1.00 38.58 6 ATOM 1443 O THR A 182 28.609 13.876 62.716 1.00 41.24 8 ATOM 1444 N ASP A 183 29.712 12.304 63.890 1.00 37.39 7 ATOM 1445 CA ASP A 183 29.211 12.773 65.171 1.00 39.24 6 ATOM 1446 CB ASP A 183 28.824 11.588 66.061 1.00 40.31 6 ATOM 1447 CG ASP A 183 30.010 10.723 66.433 1.00 41.64 6 ATOM 1448 OD1 ASP A 183 30.725 10.268 65.520 1.00 42.53 8 ATOM 1449 OD2 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1450 C ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1450 C ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 31.400 13.830 65.154 1.00 39.29 7			CA THR	A 182						39.31	6
ATOM 1440 OG1 THR A 182 32.171 12.508 62.303 1.00 40.12 6 ATOM 1441 CG2 THR A 182 31.395 14.397 61.232 1.00 40.12 6 ATOM 1442 C THR A 182 29.370 12.910 62.759 1.00 38.58 6 ATOM 1443 O THR A 182 28.609 13.876 62.716 1.00 41.24 8 ATOM 1444 N ASP A 183 29.712 12.304 63.890 1.00 37.39 7 ATOM 1445 CA ASP A 183 29.211 12.773 65.171 1.00 39.24 6 ATOM 1446 CB ASP A 183 28.824 11.588 66.061 1.00 40.31 6 ATOM 1447 CG ASP A 183 30.010 10.723 66.433 1.00 41.64 6 ATOM 1448 OD1 ASP A 183 30.725 10.268 65.520 1.00 42.53 8 ATOM 1449 OD2 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1450 C ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 31.400 13.830 65.154 1.00 39.29 7										37.13	8
ATOM 1441 CG2 THR A 182 31.395 14.397 62.759 1.00 38.58 6 ATOM 1442 C THR A 182 29.370 12.910 62.759 1.00 38.58 6 ATOM 1443 O THR A 182 28.609 13.876 62.716 1.00 41.24 8 ATOM 1444 N ASP A 183 29.712 12.304 63.890 1.00 37.39 7 ATOM 1445 CA ASP A 183 29.211 12.773 65.171 1.00 39.24 6 ATOM 1446 CB ASP A 183 28.824 11.588 66.061 1.00 40.31 6 ATOM 1447 CG ASP A 183 30.010 10.723 66.433 1.00 41.64 6 ATOM 1448 OD1 ASP A 183 30.725 10.268 65.520 1.00 42.53 8 ATOM 1449 OD2 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1450 C ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 31.400 13.830 65.154 1.00 39.29 7			OG1 THR	A 182			12.508				6
ATOM 1442 C THR A 182 29.370 12.300 62.716 1.00 41.24 8 ATOM 1443 O THR A 182 28.609 13.876 62.716 1.00 37.39 7 ATOM 1444 N ASP A 183 29.712 12.304 63.890 1.00 37.39 7 ATOM 1445 CA ASP A 183 29.211 12.773 65.171 1.00 39.24 6 ATOM 1446 CB ASP A 183 28.824 11.588 66.061 1.00 40.31 6 ATOM 1447 CG ASP A 183 30.010 10.723 66.433 1.00 41.64 6 ATOM 1448 OD1 ASP A 183 30.725 10.268 65.520 1.00 42.53 8 ATOM 1449 OD2 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1450 C ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 31.400 13.830 65.154 1.00 39.29 7			CG2 THR	A 182						38.58	
ATCM 1443 O THR A 182 29.712 12.304 63.890 1.00 37.39 7 ATCM 1444 N ASP A 183 29.712 12.304 65.171 1.00 39.24 6 ATCM 1445 CA ASP A 183 28.824 11.588 66.061 1.00 40.31 6 ATCM 1447 CG ASP A 183 30.010 10.723 66.433 1.00 41.64 6 ATCM 1448 OD1 ASP A 183 30.725 10.268 65.520 1.00 42.53 8 ATCM 1449 OD2 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATCM 1450 C ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATCM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATCM 1451 O ASP A 183 31.400 13.830 65.154 1.00 39.29 7		1442									8
ATOM 1444 N ASP A 183 ATOM 1445 CA ASP A 183 ATOM 1446 CB ASP A 183 ATOM 1447 CG ASP A 183 ATOM 1448 OD1 ASP A 183 ATOM 1448 OD2 ASP A 183 ATOM 1449 OD2 ASP A 183 ATOM 1449 OD2 ASP A 183 ATOM 1450 C ASP A 183 ATOM 1450 C ASP A 183 ATOM 1451 O		1443		A 182						37.39	7
ATOM 1445 CA ASP A 183 28.824 11.588 66.061 1.00 40.31 6 ATOM 1446 CB ASP A 183 30.010 10.723 66.433 1.00 41.64 6 ATOM 1447 CG ASP A 183 30.725 10.268 65.520 1.00 42.53 8 ATOM 1448 OD1 ASP A 183 30.725 10.268 65.520 1.00 42.46 8 ATOM 1449 OD2 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1450 C ASP A 183 30.226 13.621 65.853 1.00 40.34 6 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 31.400 13.830 65.154 1.00 39.29 7			N ASP	A 183					1.00	39.24	
ATOM 1446 CB ASP A 183 30.010 10.723 66.433 1.00 41.64 6 ATOM 1447 CG ASP A 183 30.725 10.268 65.520 1.00 42.53 8 ATOM 1448 OD1 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1450 C ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 31.400 13.830 65.154 1.00 39.29 7	ATOM		CA ASP	A 183					1 1.00	40.31	6
ATOM 1448 OD1 ASP A 183 30.725 10.268 65.520 1.00 42.46 8 ATOM 1449 OD2 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 ATOM 1450 C ASP A 183 30.286 13.621 65.853 1.00 40.34 6 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 31.400 13.830 65.154 1.00 39.29 7								3 66.43	3 1.00		
ATOM 1449 OD2 ASP A 183 30.221 10.494 67.640 1.00 42.46 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9			AD1 25P	A 183			10.26	8 65.52			
ATOM 1450 C ASP A 183 30.286 13.621 65.653 1.00 42.07 8 ATOM 1451 O ASP A 183 30.109 14.071 66.983 1.00 42.07 8 ATOM 1451 O ASP A 183 31.400 13.830 65.154 1.00 39.29 7			OD2 ASP	A 183			10.49	4 67.64			
ATOM 1451 0 ASP A 183 30.109 14.071 66.983 1.00 32.07 31.400 13.830 65.154 1.00 39.29 7											_
31.400 13.830 65.134 1.00			O ASP	A 183			14.07				
					31	.400	13.83	0 _03.13			
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			1	0.4	22	. 506	14.635	65.671	1.00 37.0	08 6	
MOTA	1453		GLN A 1	.84	_		14.252	64.994	1.00 33.		
MOTA	1454		GLN A 1			. 830		65.166	1.00 33.		
MOTA	1455			.84		. 229	12.804	64.593	1.00 33.		
MOTA	1456		GLN A 1			. 599	12.499				
MOTA	1457	OE1	GLN A 1	.84	35	. 853	12.704	63.413	1.00 31.		
MOTA	1458	NE2	GLN A 1	.84	36	.490	11.999	65.436	1.00 36.		
	1459		GLN A 1		32	. 222	16.110	65.403	1.00 36.		
MOTA			GLN A 1			. 803	16.994	66.034	1.00 37.		
MOTA	1460		VAL A 1			.329	16.372	64.456	1.00 33.	14 7	
MOTA	1461					.984	17.740	64.119	1.00 32.		į
ATOM	1462		VAL A 1				18.052	62.641	1.00 33.		į
ATOM	1463		VAL A			.308	19.520	62.331	1.00 29.		
.ATOM	1464		VAL A 1			.009		62.357	1.00 34.		
ATOM	1465		VAL A 1			.773	17.738		1.00 34.		
MOTA	1466		VAL A 1			.508	17.972	64.360			
ATOM	1467	0	VAL A	185		.680	17.124	64.038	1.00 31.		
MOTA	1468	N	PHE A	186	29	.185	19.119	64.946	1.00 30.		
	1469	CA	PHE A		27	.798	19.463	65.207	1.00 31.		
ATOM	1470	CB	PHE A		27	.524	19.532	66.716	1.00 30.		
MOTA	1471	CG	PHE A			.059	19.617	67.066	1.00 31.		
MOTA			PHE A	186		.552	18.901	68.153	1.00 30.		5
MOTA	1472	CDI	PHE A	106		.179	20.395	66.308	1.00 31.	.50 €	5
MOTA	1473	CDZ	PRE A	100		.191	18.951	68.478	1.00 33.	.28 6	6
MOTA	1474	CEI	PHE A	100			20.457	66.622	1.00 33.		6
MOTA	1475		PHE A	186		.815		67.708	1.00 32		6
ATOM	1476	CZ	PHE A			.318	19.733	64.551	1.00 30		6
MOTA	1477	С	PHE A			.490	20.798		1.00 31		8
ATOM	1478	0	PHE A			.189	21.789	64.751	1.00 31		7
ATOM	1479	N	VAL A	187		.435		- 63.752			
MOTA	1480	CA	VAL A		26	.024	22.015	63.063	1.00 32		6
ATOM	1481	CB	VAL A	187		.018	21.805	61.525	1.00 33		6
	1482				25	.574	23.081	60.813	1.00 32		6
ATOM	1483		VAL A			.420	21.389	61.056	1.00 35		6
MOTA		C	VAL A			.638	22.439	63.524	1.00 31		6
MOTA	1484		VAL A			.666	21.686.	63.410	1.00 29		8
MOTA	1485	0	LEU A			.579	23.638	64.090	1.00 29		7
ATOM	1486	N				.336	24.228	64.551	1.00 29		6
MOTA	1487	CA	LEU A			3.433	24.665	66.009	1.00 29		6
ATOM	1488	CB	LEU A			2.293	25.589	66.458	1.00 27		6
MOTA	1489	CG	LEU A				24.844	66.414	1.00 25		6
MOTA	1490	CD1	LEU A	188	20	970		67.861	1.00 27		6
ATOM	1491	CD2	LEU A	188		2.574	26.107	63.675	1.00 31		6
ATOM	1492	С	LEU A			3.161	25.454		1.00 31		8
ATOM	1493	0	LEU A			1.130	26.175	63.388			7
ATOM	1494	N	SER A	189		1.929	25.700	63.250	1.00 29		6
ATOM	1495	CA	SER A	189	2:	1.682	26.831	62.390	1.00 24		
ATOM	1496	CB	SER A		2:	1.873	26.411	60.942	1.00 22	.40	6
	1497	0G	SER A	189	2:	1.585	27.485	60.083	1.00 19		8
MOTA	1498	c	SER A	189		0.716	27.462	62.540	1.00 27		6
ATOM	•		SER A	189		9.,,96	26.774	62.577	1.00 26	.72	8
ATOM	1499	0	LEU A	190		0.221	28.783	62.669	1.00 27	.41	7
ATOM	1500	N	LEU A	100		9.096	29.554		1.00 29	.68	6
ATOM	1501	CA				9.185	30.682			.84	6
ATOM	1502	CB	LEU A				30.366			5.79	6
MOTA	1503	CG	LEU A			9.108				1 44	6
ATOM	1504	CD1				9.020	31.662			7 63	6
ATOM	1505	CD2				7.881					6
ATOM	1506	С	LEU A	190		9.046					8
ATOM	1507	0	LEU A	190	2	0.084	30.525			1.40	7
	1508	N	HIS A	191	1	7.864	30.206	60.727			
ATOM	1509	CA	HIS A		1	7.766	30.726	59.368			6
MOTA			HIS A			8.595		58.432	1.00 20	5.47	6
MOTA	1510	CB	HIS A	191		8.225			1.00 28		6
MOTA	1511	CG				8.918			1.00 21		6
ATOM	1512	CD2	HIS A	171							7
ATOM	1513	ND1	HIS A	121		6.989					6
ATCM	1514	CEl	HIS A	191		6.938					7
ATOM	1515	NE2	HIS A	191		8.095					6
ATOM	1516	С	HIS A		1	6.329	30.812				8
ATOM	1517	0	HIS A	191		5.385	30.41				7
	1518		GLN A	192	1	6.183	31.346	57.649	1.00 2	J. 37	•
ATOM											

	1510 0	a C	LN A 192	14.	886	31.494	57.008	1.00 2	8.21	6
		A G	LN A 192		016	32.416	55.796	1.00 2	4.94	6
		G G	LN A 192		622	33.773	56.124	1.00 2		6
MOTA			LN A 192		701	34.690	54.921	1.00 2		6
MOTA			LN A 192		684	35.173	54.428	1.00 2		8
MOTA	1523 O 1524 N		LN A 192		914	34.925	54.434	1.00 2		7
ATOM			LN A 192		. 435	30.104	56.570	1.00		6
ATOM		G	LN A 192	15	. 157	29.403	55.853	1.00		8
MOTA	1526 C	, <u> </u>	ER A 193		.249	29.694	57.011	1.00		7 6
MOTA			ER A 193		.751	28.376	56.650	1.00		6
MOTA			ER A 193 -	11	.264	28.249	56.961	1.00		8
MOTA MOTA			ER A 193		.786	26.987	56.540	1.00		6
ATOM			ER A 193		.974	28.150	55.171	1.00		8
MOTA) S	ER A 193		.775	29.051	54.356 54.803	1.00	37 57	7
ATOM			RO A 194	13	.404	26.938	55.658	1.00		6
MOTA	1534	D F	PRO A 194		. 689	25.775	53.403	1.00		6
MOTA	1535		PRO A 194		.654	26.600 25.194	53.498	1.00		6
ATOM	1536	CB F	PRO A 194		.248	25.194	54.916		39.09	6
MOTA			PRO A 194		.840	26.617	52.638		36.81	6
MOTA			PRO A 194		.340	26.443	51.425	1.00	34.09	8
MOTA			PRO A 194		.317	26.835	53.364	1.00	39.25	7
MOTA			GLÚ A 195		.928	26.866	52.750			6
MOTA			GLU A 195 GLU A 195		.843	26.600	53.812	1.00	45.84	6
MOTA			GLU A 195		.360	27.811	54.608		53.30	6
ATOM			GLU A 195		.160	28.502	53.960		55.91	6
MOTA			GLU A 195		.735	29.571	54.461	1.00	55.14	8
MOTA		OE1 (GLU A 195		.631	27.966	52.956		57.75	8
ATOM		C (GLU A 195	9	.700	28.208	52.047		39.50	6 8
MOTA			GLU A 195	8	3.651	28.431	51.452	1.00	40.21 37.13	7
MOTA MOTA			TYR A 196		689	29.096	52.098	1.00	35.50	6
MOTA		CA '	TYR A 196		.549	30.379	51.434		36.36	6
MOTA		CB	TYR A 196		602	31.274	52.245		37.28	6
ATOM	1552	CG	TYR A 196	_	0.175	31.816	53.538 53.527		35.42	6
ATOM	1553		TYR A 196		1.120	32.848	54.706	1.00		6
ATOM	1554	CE1	TYR A 196		1.637	33.366 31.311	54.776		36.75	6
ATOM	1555		TYR A 196		9.764 0.279	31.825	55.968	1.00	35.26	6
ATOM	1556	CE2	TYR A 196		1.213	32.856		1.00	35.84	6
MOTA	1557	CZ	TYR A 196 TYR A 196		1.704	33.401		1.00		8
MOTA	1558		TYR A 196		1.878	31.097	51.188		34.89	6
MOTA	1559	C	TYR A 196		1.896	32.256	50.764		31.61	8
ATOM	1560 1561	O N	ALA A 197		2.991		51.437		34.39	7
MOTA	1562	CA	ALA A 197	1	4.297				34.82	6 6
ATOM	1563	CB	ALA A 197		4.684				32.48 36.59	6
MOTA MOTA	1564	C	ALA A 197	1	5.418				37.46	8
ATOM	1565	Ō	ALA A 197		5.407				36.22	7
MOTA	1566	N	PHE A 198	1	6.388	30.584			37.68	6
ATOM	1567	CA	PHE A 198		7.548				40.89	6
ATOM	1568	CB	PHE A 198		8.597				43.59	6
ATOM	1569	CG	PHE A 198		9.810				44.74	6
ATOM	1570	CD1	PHE A 198		.9.783 .0.970				41.86	6
MOTA	1571	CD2	PHE A 198		0.894			1.00	41.42	6
MOTA	1572	CEl	PHE A 198		2.079			1.00	43.30	6
ATOM	1573		PHE A 198		2.040			1.00	41.86	6
MOTA	1574	CZ	PHE A 198 PHE A 198		8.139			7 1.00	37.00	6
ATOM	1575	C	PHE A 198		8.166				0 36.43	8
ATOM	1576	0	PRO A 199	-	18.64		2 50.84	_	0 37.63	7
ATOM	1577	N CD	PRO A 199		19.29		8 51.99°		0 35.29	6
ATOM	1578	CA	PRO A 199		18.72		8 49.67			
ATOM	1579 1580	CB	PRO A 199		19.70	2 25.93		-	0 34.96	
MOTA	1581	CG	PRO A 199		19.28	1 25.77			0 34.57	, 6
ATOM	1582	c	PRO A 199		17.40	9 26.38		-	0 35.72 0 37.36	
ATOM	1583	Ö	PRO A 199		17.38				0 37.38	
MOTA MOTA	1584	N	PHE A 200		16.33	1 26.63	8 49.96	2 1.0	JJ./6	•
ATOM										

				,							_
ATOM	1585	CA	PHE A 20	0		004	26.090	49.662	1.00 32		6 6
ATOM	1586	CB	PHE A 20	0		562	26.381	48.222	1.00 28		6
MOTA	1587	CG	PHE A 20			600	27.827	47.835	1.00 26		6
ATOM	1588	CD1	PHE A 20			749	28.385	47.296	1.00 28		6
ATOM	1589	CD2	PHE A 20			466	28.623	47.966 46.882	1.00 25		6
ATOM.	1590	CEl	PHE A 20			767	29.712	40.882	1.00 27		6
MOTA	1591	CE2	PHE A 20	0		475	29.955	47.013	1.00 24		6 .
MOTA	1592	CZ	PHE A 20	00		626	30.498 24.574	49.842	1.00 32		6
MOTA	1593	C	PHE A 20			947 925	24.033	50.264	1.00 3		8
MOTA	1594	0	PHE A 20 GLU A 20			043	23.896	49.499	1.00 33		7
MOTA	1595	N	GLU A 20			128	22.438	49.585	1.00 30		6
ATOM	1596 1597	CA CB	GLU A 20			213	21.931	48.637-	1.00 33		6
ATOM ATOM	1598	CG	GLU A 20			879	22.182	47.175	1.00 3		6
ATOM	1599	CD	GLU A 20		18.	012	21.864	46.232	1.00 3	4.56	6
ATOM	1600	OE1	GLU A 20)1		.396	20.678	46.117	1.00 3		8 - 8
ATOM	1601	OE2	GLU A 20			. 523	22.814	45.605	1.00 3	8.52	6
ATOM	1602	С	GLU A 20			. 369	21.911	50.981 51.520	1.00 2		8
MOTA	1603	0	GLU A 20			. 537	21.199 22.239	51.566	1.00 3		7
MOTA	1604	N	LYS A 20			.511 .795	21.780	52.917	1.00 3	2.34	6
MOTA	1605	CA	LYS A 20			. 276	21.432	53.092	1.00 3		6
MOTA	1606	CB	LYS A 20 LYS A 20	02 02		.789	20.226	52.307	1.00 4	3.74	6
MOTA	1607 1608	CG	LYS A 20			.212	20.590	50.891	1.00 4		6
MOTA	1609	CE	LYS A 20			.952	19.428	50.227	1.00 4	9.34	6
MOTA MOTA	1610	NZ	LYS A 20		21	.504	19.802	48.895	1.00 4		7
ATOM	1611	C	LYS A 20	02		.421	22.849	53.937	1.00 3	0.55	6 8
ATOM	1612	0	LYS A 20	02 .		. 877	23.890	53.586	1.00 2		7
MOTA	1613	N	GLY A 20			.710	22.571	55.203 56.259	1.00 3		6
MOTA	1614	CA	GLY A 20			.422 .216	23.519 23.210	57.125	1.00 2	9.23	6
MOTA	1615	С	GLY A 20			.915	23.975	58.041	1.00 3		8
MOTA	1616	0	GLY A 20 PHE A 20			.526	22.104	56.866	1.00 2	6.32	7
MOTA	1617 1618	N CA	PHE A 20			.344	21.779	57.657	1.00 2		6
MOTA	1619	CB		04		.366	20.917	56.863	1.00 2		6
ATOM ATOM	1620	CG	PHE A 2		12	.855	21.573	55.635	1.00 1		6
ATOM	1621	CD1				.605	21.560	54.461	1.00		6 6
ATOM	1622	CD2	PHE A 2	04		.654	22.273	55.664	1.00 1	16.91	6
ATOM	1623	CEI				.168	22.245	53.333 54.544	1.00		6
MOTA	1624	CE2				.206	22.952	53.375	1.00	18.34	6
MOTA	1625	CZ	PHE A 2	04		.626	21.094	58.979	1.00		6
MOTA	1626	C	PHE A 2 PHE A 2			.578	20.318	59.118	1.00	22.68	8
MOTA	1627 1628	N	LEU A 2			.760	21.376	59.942	1.00		7
ATOM	1629	CA	LEU A 2			.877	20.818	61.272	1.00	24.83	6
MOTA MOTA	1630	СВ	LEU A 2		12	.678	21.259	52.110	1.00	21.29	6
ATOM	1631	CG	LEU A 2	.05		.672	20.811	33.568	1.00	22.67	6 6
MOTA	1632		LEU A 2			.011	21.182	14.245	1.00	20 62	6
MOTA	1633		2 LEU A 2			. 478	21.456 19.293	64.275 61.303		28.79 _?	
MOTA	1634	С	LEU A 2			.002	18.730	62.310		28.59	8
MOTA	1635	0	LEU A 2			.625	18.628	60.211	1.00	33.52	7
MOTA	1636	N	GLU A 2 GLU A 2			.693	17.166	60.142	1.00	39.79	6
ATOM	1637 1638	CA CB	GLU A 2			2.736		59.070	1.00	44.37	6
ATOM	1639	CG	GLU A 2			.284	17.060	59.204	1.00	50.75	6
ATOM ATOM	1640	CD	GLU A 2			1.014	18.390	58.512		55.31	6
ATOM	1641	OE:	_			972				55.36	8 8
ATOM	1642	OE:	2 GLU A 2	206		1.839				56.48 40.00	6
ATOM	1643	С	GLU A 2	206		5.114				39.35	8
MOTA	1644	0	GLU A 2	206		5.483				39.38	7
ATCM	1645		GLU A	207		5.903				37.90	6
MOTA	1646			207		7.286 7.776				37.36	6
MOTA	1647		GLU A	207		7.776 6.983				37.29	6
ATOM	1648		_	207		6.978			1.00	38.16	6
ATOM	1649		1 GLU A			8.071				35.44	8
MOTA	1650		T GEO A		_	_		-			

		.,	ASN A 217		22.976	17.471	64.212	1.00 33.83	7
MOTA	1717	N	ASN A 217		22.726	18.558	63.267	1.00 30.20	6
MOTA	1718		ASN A 217		22.699	18.057	61.823	1.00 27.74	6
MOTA	1719	CB	ASN A 217		22.457	19.177	60.826	1.00 25.61	6
MOTA	1720	CG	ASN A 217		21.354	19.705	60.719	1.00 25.00	8
MOTA	1721	OD1	ASN A 217		23.501	19.558	60.103	1.00 30.43	7
MOTA	1722		ASN A 217		21.369	19.116	63.645	1.00 29.09	6
MOTA	1723	C			20.433	18.351	63.885	1.00 26.93	8
MOTA	1724	0	ASN A 217		21.263	20.440	63.710	1.00 27.19	7
MOTA	1725	N	LEU A 218		20.010	21.071	64.089	1.00 25.33	6
MOTA	1726	CA	LEU A 218		20.026	21.379	65.590	1.00 23.23	6
ATOM	1727	CB	LEU A 218		18.729	21.704	66.346	1.00 21.00	6
MOTA	1728	CG	LEU A 218		19.100	22.313	67.695	1.00 18.62	6
MOTA	1729	CD1	LEU A 218		17.872	22.675	65.583	1.00 18.48	6
MOTA	1730		LEU A 218		19.785	22.368	63.325	1.00 25.04	6
MOTA	1731	C	LEU A 218		20.596	23.287	63.415	1.00 25.23	8
MOTA	1732	0	LEU A 218		18.681	22.436	62.584	1.00 28.44	7
ATOM	1733	N	ASN A 219		18.310	23.636	61.829	1.00 28.76	6
MOTA	1734	CA	ASN A 219		17.809	23.298	60.417	1.00 25.69	6
MOTA	1735	CB	ASN A 219		18.748	22.408	59.646	1.00 26.10	6
MOTA	1736	CG	ASN A 219		19.927	22.708	59.505	1.00 28.53	8
ATOM	1737	OD1	ASN A 219		18.220	21.311	59.114	1.00 26.97	7
MOTA	1738		ASN A 219		17.129	24.248	62.582	1.00 31.96	6
MOTA	1739	C	ASN A 219		16.373	23.539	63.246	1.00 34.84	8
MOTA	1740	0	ASN A 219		16.952	25.556	62.472	1.00 32.96	7
MOTA	1741	N	ILE A 220		15.826	26.196	63.129	1.00 32.50	6
MOTA	1742	CA	ILE A 220		16.259	27.037	64.350	1.00 32.32	6
MOTA	1743	CB	ILE A 220		15.029	27.644	65.014	1.00 29.46	6
MOTA	1744	CG2			16.978	26.160	65.374	1.00 29.65	6
MOTA	1745	CG1			16.080	25.138	66.027	1.00 28.65	6
MOTA	1746	CD1			15.140	27.106	62.123	1.00 35.36	6
ATOM	1747	C	ILE A 220		15.469	28.290	62.009	1.00 35.52	8
MOTA	1748	0	ILE A 220		14.185	26.553	61.359	1.00 36.87	7
MOTA	1749	N	PRO A 221 PRO A 221		13.718	25.158	61.359	1.00 35.12	6
MOTA	1750	CD			13.715	27.318	60.356	1.00 35.41	6
MOTA	1751	CA	PRO A 221		12.509	26.262	59.767	1.00 35.68	6
MOTA	1752	CB	PRO A 221 PRO A 221		13.319	24.992	59.911	1.00 33.86	6
MOTA	1753	CG	PRO A 221		12.696	28.437	61.053	1.00 34.37	6
MOTA	1754	C	PRO A 221		12.014	28.199	62.043	1.00 38.79	8
MOTA	1755	0	LEU A 222		12.815	29.655	60.547	1.00 34.76	7
MOTA	1756	N	LEU A 222		12.138	30.796	61.166	1.00 33.87	6
MOTA	1757	CA	LEU A 222		13.173	31.735	61.798	1.00 35.13	6
MOTA	1758	CB	LEU A 222		14.104	31.163	62.876	1.00 33.07	6
ATOM	1759	CG			15.234	32.150	63.154	1.00 34.04	6
ATOM	1760	CDI	LEU A 222		13.312	30.856	64.141	1.00 32.39	6
MOTA	1761		LEU A 222		11.287	31.567	60.157	1.00 32.15	6
ATOM	1762	C	LEU A 222		11.669	31.740	59.000	1.0 31.32	8
MOTA	1763	N O	PRO A 223		10.127	32.060	60.601		7
ATOM	1764	CD	PRO A 223		9.606		61.972	1.00 32.34	6
MOTA	1765	CA	PRO A 223		9.173	32.818	59.789	1.00 30.55	6
ATOM	1766	CB	PRO A 223		7.957		60.702	1.00 29.44	6
MOTA	1767	CG	PRO A 223		8.626		62.046	1.00 31.02	6
ATOM	1768	C	PRO A 223		9.645		59.366	1.00 29.20	6
ATOM	1769		PRO A 223		10.694		59.796	1.00 31.95	8
MOTA	1770	0	LYS A 224		8.841		58.521	1.00 26.14	7
ATOM	1771	N	LYS A 224		9.115		58.026	1.00 23.54	6
ATOM	1772	CA	LYS A 224		8.285		56.766	1.00 24.71	6
ATOM	1773	CB	LYS A 224		8.563			1.00 23.83	6
MOTA	1774	CG	1VC 3 224		7.737			1.00 20.59	6
MOTA	1775	CD	LYS A 224		8.065				6
MOTA	1776		LYS A 224		7.198				7
ATOM	1777		LYS A 224		.8.702				6
ATOM	1778		LYS A 224		7.999			1.00 22.67	8
atom	1779		LYS A 224		9.124				7
atom	1780		GLY A 225		8.777				6
ATOM	1781		GLY A 225		9.396				6
ATCM	1782	С	GLY A 225	• .	9.390		•		
			•						

		> 225	9.068	39.861	62.271	1.00 31.20	8
MOTA		O GLY A 225	10.299	38.216	61.338	1.00 32.86	7
MOTA	1784	N LEU A 226				1.00 34.55	6
ATOM	1785	CA LEU A 226	10.975	37.877		1.00 34.46	6
ATOM	1786	CB LEU A 226	12.149	36.958			
	_	CG LEU A 226	12.982	36.413		1.00 34.48	6
MOTA		CD1 LEU A 226	12.146	35.425	64.212	1.00 33.18	6
MOTA		CDI LEU A 220	14.207	35.724	62.847	1.00 31.39	6
ATOM	1789	CD2 LEU A 226		39.160	63.255	1.00 36.29	6
ATOM	1790	C LEU A 226	11.481			1.00 33.87	8
ATOM	1791	O LEU A 226	12.156	39.970	62.613	1.00 37.31	7
	1792	N ASN A 227	11.131	39.358	64.531		
ATOM		CA ASN A 227	11.592	40.536	65.279	1.00 37.26	6
ATOM	1793		10.444	41.212	66.053	1.00 35.57	6.
ATOM	1794	CB ASN A 227	9.920	40.368	67.208	1.00 36.07	6
MOTA	1795	CG ASN A 227		39.940	68.089	1.00 35.08	8
ATOM	1796	OD1 ASN A 227	10.678		67.218	1.00 32.33	7
ATOM	1797	ND2 ASN A 227	8.611	40.143		1.00 37.95	6
ATOM	1798	C ASN A 227	12.688	40.096	66.259		8
	1799	O ASN A 227	12.869	38.890	66.473	1.00 37.08	
MOTA		N ASP A 228	13.403	41.063	66.832	1.00 36.07	7
ATOM	1800		14.505	40.754	67.751	1.00 37.63	6
ATOM	1801	CA ASP A 228	14.996	42.007	68.486	1.00 36.48	6
MOTA	1802	CB ASP A 228		43.088	67.545	1.00 37.52	6
ATOM	1803	CG ASP A 228	15.480		66.427	1.00 35.28	8
MOTA	1804	OD1 ASP A 228	15.936	42.752		1.00 39.01	8
	1805	OD2 ASP A 228	15.426	44.274	67.937		
MOTA		C ASP A 228	14.204	39.678	68.783	1.00 37.56	6
ATOM	1806		14.921	38.678	68.869	1.00 39.53	8
MOTA	1807	000	13.155	39.889	69.572	1.00 38.37	7
MOTA	1808	N ASN A 229	12.766	38.935	70.605	1.00 37.49	6
ATOM	1809	CA ASN A 229			71.200	1.00 37.38	6
ATOM	1810	CB ASN A 229	11.422	39.352		1.00 40.47	6
ATOM	1811	CG ASN A 229	11.490	40.709	71.877	1.00 41.76	8
	1812	OD1 ASN A 229	12.041	40.840	72.973		
MOTA	1813	ND2 ASN A 229	10.960	41.735	71.212	1.00 36.50	7
MOTA			12.680	37.530	70.017	1.00 37.64	6
MOTA	1814		13.446	36.634	70.395	1.00 35.76	8
ATOM	1815	O ASN A 229		37.351	69.076	1.00 36.01	7
MOTA	1816	N GLU A 230	11.758		68.425	1.00 34.74	6
ATOM	1817	CA GLU A 230	11.574	36.062		1.00 35.55	6
ATOM	1818	CB GLU A 230	10.753	36.242	67.153	1.00 36.95	6
	1819	CG GLU A 230	9.382	36.820	67.407	1.00 36.33	
MOTA		CD GLU A 230	8.580	36.960	66.144	1.00 35.30	6
MOTA	1820		9.042	37.670	65.229	1.00 36.98	8
MOTA	1821	OE1 GLU A 230	7.490	36.361	66.065	1.00 36.71	8
MOTA	1822	OE2 GLU A 230	12.916	35.421	68.082	1.00 33.92	6
MOTA	1823	C GLU A 230		34.238	68.346	1.00 32.74	8
ATOM	1824	O GLU A 230	13.143		67.487	1.00 32.03	7
ATOM	1825	N PHE A 231	13.804	36.207		1.00 30.55	6
ATOM	1826	CA PHE A 231	15.116	35.712	67.123		6
	1827	CB PHE A 231	15.932	36.821	66.460	1.00 33.86	
MOTA	1027	CG HE A 231	17.295	36.381	66.012	1.00 36.97	6
ATOM	1828	CD1 _HE A 231	17.438	35.334	65.102	1.00 40.41	6
MOTA	1829	CDI PRE A 231	18.436			1.00 36.58	6
ATOM	1830	CD2 .HE A 231				1.00 43.00	6
MOTA	1831	CE1 PHE A 231	18.709			1.00 39.07	6
ATOM	1832	CE2 PHE A 231	19.711				6
MOTA	1833	CZ PHE A 231	19.849	35.586		1.00 40.52	6
	1834	C PHE A 231	15.835	35.232	68.376	1.00 30.63	
ATOM			16.177		68.497	1.00 29.66	8
MOTA	1835		16.049			1.00 24.94	7
MOTA	1836	N LEU A 232		_			6
MOTA	1837	CA LEU A 232	16.742				6
ATOM	1838	CB LEU A 232	16.724	37.084			6
	1839	CG LEU A 232	17.507				2
ATOM		CD1 LEU A 232	17.316		71.746		6
MOTA	1840	CD2 LEU A 232	18.991		3 70.787		6
MOTA	1841	- 030	16.150			1.00 22.44	6
MOTA	1842	C LEU A 232					8
ATCM	1843	O LEU A 232	16.882				7
MOTA	1844	N PHE A 233	14.82				6
	1845	CA PHE A 233	14.13	L 33.422	71.905		6
ATOM	1846		12.62	3 33.53	5 71.641		6
MOTA		222	11.81		3 72.157		
MOTA	1847		11.49			1.00 25.59	6
S/T/OM	1848	COT SHE W 733			-		

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872	CD2 PHE A 233 CE1 PHE A 233 CE2 PHE A 233 CE2 PHE A 233 CE3 PHE A 233 CE4 PHE A 233 CE5 PHE A 233 CE5 PHE A 233 CE6 PHE A 234 CE6 ALA A 234 CE7 ALA A 234 CE8 ALA A 234 CE8 ALA A 234 CE8 ALA A 234 CE9 ALA A 235 CE9 CE9 A 236 CE9 CE9 CE9 A 236 CE9	10 10 10 11 11 11 11 11 11 11 11 11 11	339 339 3698 36	31.397 31.198 30.327 30.232 32.133 31.209 32.087 30.921 31.107 30.645 29.491 31.695 31.486 32.819 32.745 34.156 31.939 30.846 29.835 31.435 30.931 31.730 33.176 34.022 33.557 35.150 29.473 28.593 29.250 27.943 28.060 27.0605	73.974 71.747 73.093 71.275 71.971 69.949 69.209 67.720 69.433 69.769.703 69.316 69.703 69.316 69.316 71.176 71.312 72.192 73.561 74.452 74.635 74.843 75.556 74.297 73.639 74.116 73.175 72.452 72.848	1.00 25.75 1.00 25.33 1.00 24.02 1.00 22.77 1.00 26.64 1.00 28.34 1.00 27.27 1.00 30.24 1.00 33.38 1.00 30.76 1.00 30.04 1.00 31.84 1.00 35.64 1.00 36.33 1.00 36.44 1.00 35.64 1.00 30.75 1.00 30.12 1.00 29.03 1.00 35.64 1.00 35.64 1.00 49.07 1.00 49.07 1.00 49.07 1.00 49.07 1.00 34.65 1.00 37.01 1.00 39.65 1.00 39.65 1.00 40.66	666668766687666687666886876666
MOTA					29.250	73.176	1.00 35.67	7
	1878	CA LYS A 237						
ATOM		CB LYS A 237					1.00 39.65	
MOTA MOTA	1880	CD LYS A 237	:	12.712	27.605	73.821	1.00 40.66 1.00 40.58	6 6
MOTA	1882	CE LYS A 237		13.312	28.054 28.556	75.153 76.083	1.00 40.38	7
MOTA	1883	NZ LYS A 237 C LYS A 237		12.250 17.025	26.891	72.485	1.00 35.07	6
MOTA MOTA	1884 1885	O LYS A 237		17.315	25.833	73.061	1.00 30.60 1.00 33.59	8 7
ATOM	1886	N SER A 238		17.455 18.279			1.00 32.18	6
MOTA	1887 1888	CA SER A 238 CB SER A 238		18.453	26.867	69.042		6 8
MOTA MOTA	1889	OG SER A 238		19.014				6
MOTA	1890	C SER A 238 O SER A 238		19.650 20.064			1.00 26.88	8
MOTA MOTA	1891 1892	N LEU A 239		20.357	26.920	71.564		7 6
ATOM	1893	CA LEU A 239		21.660 22.293		72.147	1.00 28.03	Ē
ATOM	189 4 1895	CB LEU A 239 CG LEU A 239		22.650	29.087	71.817	1.00 24.31	(F
ATOM ATOM	1896	CD1 LEU A 239		23.210				6
MOTA	1897	CD2 LEU A 239 C: LEU A 239		23.663		73.275	1.00 31.99	6
MOTA MOTA	1898 1899	O LEU A 239		22.279	24.764	73.473		8 7
ATOM	1900	N GLU A 240		20.367			1.00 38.61	6
ATOM	1901 1902	CA GLU A 240 CB GLU A 240		18.799	25.369	75.842	1.00 43.21	6 6
ATOM ATOM	1902	CG GLU A 240		18.500				6
atom	1904	CD GLU A 240 CE1 GLU A 240		19.67			1 1.00 57.81	8
MOTA	1905 1906	OE2 GLU A 240		20.31	8 23.30	4 78.09		8 6
MOTA MOTA	1907	C GLU A 240		20.033			, 1.00 38.83	8
ATOM	1908 1909	O GLU A 240 N ILE A 241		19.42	3 23.25	2 73.56	7 1.00 40.74	. 7
ATOM ATOM	1910	CA ILE A 241	•	19.31				
ATOM	1911	CB ILE A 241		18.46 18.53		-	6 1.00 31.39	6
ATCM	1912 1913	CG2 ILE A 241 CG1 ILE A 241		17.01	2 22.22	6 72.05	6 1.00 31.06	5 6 3 6
HOTA MOTA	1914	CD1 ILE A 241		16.14	7 22.47	8 70.84	1.00 27.53	, ,

				_							
			> 241	20	.713	21.	372	72.747	1.00 39	.56	6
MOTA	1915 C	ILE	A 241	20	.984		189	72.936	1.00 40	.82	8
MOTA	1916 0	ILE	A 241		.605		254	72.299	1.00 41	1.93	7
ATOM	1917 N	VAL	A 242				842	72.015	1.00 45	5.09	6
ATOM	1918 CA	A VAL	A 242		.979			71.329	1.00 45	76	6
ATOM	1919 CE	3 VAL	A 242		.808		959		1.00 4	3 09	6
	1920 CC	31 VAL	A 242	25	.242		.479	71.116			6
ATOM		32 VAL	A 242	23	.182	23	. 334	69.991	1.00 4		6
MOTA		32 VAL	A 242	2.3	.698	21	.453	73.300	1.00 4		
MOTA	1922 C	VAL	A 242		.191		.331	73.423	1.00 4		8
MOTA	1923 0	VAL	A 242		.750		.373	74.259	1.00 4	4.60	7
ATOM	1924 N	LYS	A 243				.088	75.513	1.00 4	6.96	6
ATOM	1925 C	A LYS	A 243		.427			76.527	1.00 4	9.49	6
ATOM	1926 C	B LYS	A 243		.214		.217	77.795	1.00 5		6
ATOM	1927 C	G LYS	A 243		5.061		.023	78.939	1.00 5	8 95	6
ATOM	1928 C	D LYS	A 243		1.652		.934		1.00 6		6
	1929 C		A 243		1.782		.399	78.577	1.00 6	£ 03	7
ATOM	1930 N	_	A 243	24	1.274		.283	79.676			6
MOTA	1931 C	T.Y.S	A 243		3.965		.767	76.135	1.00 4		8
MOTA			A 243	2	4.735	20	.113	76.845	1.00 4	6.39	
ATOM	1932 0	CIT	J A 244		2.716	20	.380	75.878	1.00 4	7.51	7
MOTA	1933 N		J A 244		2.172	19	.136	76.429	1.00 5	1.33	6
MOTA		A GLU	J A 244		0.650		.061	76.259	1.00	4.49	6
MOTA			J A 244		9.843		.199	76.842	1.00 €	2.61	6
MOTA			J A 244		8.360		.089	76.489	1.00 6	55.15	6
ATOM	1937 C	D GLU	J A 244).980	76.888	1.00 6	6.49	8
ATOM	1938 C	El GL	J A 244		7.572		.108	75.807	1.00		8
ATOM	1939 C	E2 GL	J A 244	1	7.986			75.698	1.00	50.17	6
ATOM	1940 C	GL	U A 244	2	2.745		7.936	76.259	1.00	51.54	8
ATOM	1941	GL1	U A 244		2.866		3.846		1.00	47 70	7
ATOM	_	VA	L A 245	_	3.104		3.148	74.441	1.00	45 43	6
ATOM		A VA	L A 245		3.587		7.063	73.611	1.00		6
ATOM		B VA	L A 245	2	2.704		5.980	72.336	1.00	50.47	6
		G1 VA	L A 245		3.082		5.765	71.499	1.00	31.01 15 65	6
MOTA			L A 245	2	1.226		6.934	72.731			6
MOTA			L A 245	2	5.056	1	7.070	73.185	1.00	43.01	
MOTA		O 172	L A 245		5.620		6.005	72.946	1.00	39.28	8
MOTA		O VA	E A 246		5.682		8.245	73.109	1.00	40.53	7
MOTA			E A 246		7.063		8.321	72.633		38.56	6
MOTA		CA PH	E A 240		7.023		8.700	71.154	1.00	36.85	6
ATOM			E A 246		8.315		8.487	70.415	1.00	36.46	6
ATOM		CG PH	IE A 246		28.749		7.201			32.95	6
MOTA		CD1 PH	IE A 246		29.064		9.582		1.00	35.51	6
ATOM	1954	CD2 PH	IE A 246		29.903		7.004			33.80	6
ATOM	1955	CE1 PH	IE A 246				9.397		1.00	34.46	6
MOTA		CE2 PH	IE A 246		30.222 30.640		8.103			35.54	6
TOM	1957	CZ PF	IE A 246				9.311			40.83	6
ATOM	1958		IE A 246		27.970		0.478			40.32	8
ATOM	1959		HE A 246		27.613				4 00	42.54	7
ATOM		N GI	LU A 247		29.141		8.839			43.93	6
ATOM		CA GI	LU A 247		30.128		9.695		1 00	45.67	6
	1962	CB GI	LU A 247		30.65		9.07			51.63	6
ATOM	1963	CG GI	LU A 247		29.763		19.243			57.42	
ATOM	1964	CD GI	LU A 247		28.478		L8.424			(2.12	8
ATOM	1965		LU A 247		27.64	5 3	18.64	76.05		62.12	8
ATOM		OE2 G	LU A 247		28.29		17.55	7 77.84		59.43	
MOTA	1966		LU A 247		31.26		19.83	9 73.46	1 1.00	43.62	6
ATOM	1967		LU A 247		32.07		18.93	1 73.29	4 1.00	44.25	8
MOTA	1968	0 G	DO N 247		31.34		20.98	8 72.78	0 1.00	43.65	7
ATOM	1969	N P	RO A 248		30.43		22.14		3 1.00	42.73	6
ATOM	1970	CD P	RO A 248		32.37		21.26		9 1.00	43.28	6
ATOM	1971	CA P	RO A 248				21.20 22.48		2 1.00	43.03	6
ATOM	1972	CB P	RO A 248		31.80		22.40 22.47			43.02	6
ATOM	1973	CG P	RO A 248		30.31					43.37	6
ATOM		C P	RO A 248		33.75		21.55			45.44	
ATOM		0 P	RO A 248		33.89		22.28			42.38	
		N G	LU A 249		34.78		20.98	_		41.56	
ATOM		CA G	LU A 249		36.15		21.26			42.06	
ATOM		CB G	LU A 249		37.14		20.27			44.28	
ATOM		CG G	LU A 249		36.93	15	18.81				_
ATOM		CD G	LU A 249		38.01	15	17.90	8 71.29	5 1.00	44.79	, ,
ATOM	1300		·					-	•		

		oms ct tt 7 249	38.208	17.938	70.054	1.00 42.47	8
ATOM	1981	OE1 GLU A 249		17 160	72.072	1.00 39.73	8
ATOM	1982	OE2 GLU A 249	38.666				
			36.443	22.654	71.583	1.00 40.99	6
MOTA	1983	C GLU A 249		23.450	72.204	1.00 42.83	8
MOTA	1984	O GLU A 249	37.150				7
		N VAL A 250	35.879	22.936	70.407	1.00 37.65	
MOTA	1985			24.221	69.728	1.00 34.87	6
MOTA	1986	CA VAL A 250					6
		CB VAL A 250	37.294	24.203	68.789	1.00 34.53	
MOTA	1987		37,129	23.113	67.728	1.00 32.76	5
MOTA	1988	CG1 VAL A 250	_	23.113		1.00 29.62	6
	1989	CG2 VAL A 250	37.487	25.581	68.144		
MOTA		CGZ VAL II CSC	34.830	24.527	68.891	1.00 32.67	5
ATOM	1990	C VAL A 250				1.00 33.96	8
	1991	O VAL A 250	34.162	23.610	68.421		
MOTA	-	0 - 1	34.539	25.810	68.690	1.00 29.71	7
MOTA	1992	N TYR A 251		26.183	67.916	1.00 27.07	6
MOTA	1993	CA TYR A 251	33.368				6
		CB TYR A 251	32.185	26.451	68.860	1.00 29.11	
ATOM	1994	CB 11K A 251		27.872	69.406	1.00 31.46	6
MOTA	1995	CG TYR A 251	32.080			1.00 31.14	6
	1996	CD1 TYR A 251	31.553	28.903	68.622		
MOTA			31.439	30.196	69.106	1.00 31.66	6
MOTA	1997				70.696	1.00 30.20	6
ATOM	1998	CD2 TYR A 251	32.494	28.181·			
			32.384	29.477	71.193	1.00 33.89	6
MOTA	1999			30.482	70.391	1.00 34.75	6
MOTA	2000	CZ TYR A 251	31.854			1.00 33.52	8
	2001	OH TYR A 251	31.743	31.773	70.867		
MOTA			33.570	27.384	66.992	1.00 27.48	6
MOTA	2002	C TYR A 251			67.366	1.00 24.78	3
ATOM	2003	O TYR A 251	34.167	28.402		1.00 24.70	7
		0.50	33.063	27.254	65.773	1.00 24.80	
MOTA	2004	N LEU A 252	33.150	28.332	64.915	1.00 23.40	6
ATOM	2005	CA LEU A 252				1.00 21.32	6
	2006	CB LEU A 252	33.631	27.810	63.451	2.00 21.32	
MOTA			35.126	27.456	63.385	1.00 21.84	6
MOTA	2007	CG LEU A 252			64.395	1.00 22.51	6
ATOM	2008	CD1 LEU A 252	35.457	26.373			5
		CD2 LEU A 252	35.499	26.999	61.986	1.00 22.07	
ATOM	2009	CD2 BEO R 252		28.959	64.729	1.00 22.56	6
MOTA	2010	C LEU A 252	31.762			1.00 21.99	8
	2011	O LEU A 252	30.750	28.266	64.856		
MOTA		0 5 3	31.734	30.277	64.554	1.00 21.01	7
ATOM	2012				64.461	1.00 18.89	6
MOTA	2013	CA LEU A 253	30.498	31.047		1.00 10.05	5
		CB LEU A 253	30.352	31.944	65.695	1.00 20.05	
MOTA	2014	CB 550 A 253	29.198	32.942	65.842	1.00 21.61	6
MOTA	2015	CG LEU A 253				1.00 22.23	6
	2016	CD1 LEU A 253	27.849	32.220	65.860		
ATOM		CD2 LEU A 253	29.395	33.716	67.145	1.00 22.90	6
MOTA	2017				63.198	1.00 20.05	6
MOTA	2018	C LEU A 253	30.539	31.901		1.00 18.17	8
	2019	O LEU A 253	31.466	32.691	62.987	1.00 18.17	
MOTA			29.544	31.720	62.340	1.00 19.40	7
ATOM	2020			32.490	61.115	1.00 18.17	6
MOTA	2021	CA GLN A 254	29.488				6
	2022	CB GLN A 254	29.017	31.592	59.969		
MOTA			27.584	31.713	59.601	1.00 18.43	6
ATOM	2023	CG GLN A 254			58.549	1.00 19.97	6
ATOM	2024	CD GLN A 254	27.368	32.766		1 00 22 54	8
	2025	OE1 GLN A 254	27.917	32.677	57.450	1.00 22.54	
MOTA			26.564	33.769	58.869	1.00 22.89	7
MOTA	2026	NEZ GLN A ZJ4		33.634	61.444	1.00 19.75	6
MOTA	2027	C GLN A 254	28.520			1 00 18 77	8
			27.470	33.415	62.060	1.00 18.77	
MOTA	2028	O GLN A 254		34.854	61.067	1.00 23.02	7
MOTA	2029	N LEU A 255	28.905			1.00 23.77	6
	2030	CA LEU A 255	28.132	36.052	61.369		~
MOTA			28.963	36.993	62.242	1.00 26.84	5
MOTA	2031	CB LEU A 255			63.684	1.00 29.34	6
MOTA	2032	CG LEU A 255	29.226	36.556		1.00 20.55	
		CD1 LEU A 255	30.196	37.520	64.331	1.00 30.65	6
MOTA	2033	COI DEU A 200		36.506	64.456	1.00 28.42	6
MOTA	2034	CD2 LEU A 255	27.902				6
	2035	C LEU A 255	27.605	36.842	60.197		ž
MOTA			27.774	38.066	60.149	1.00 24.94	8
MOTA -	2036	O LEU A 255			59.254		7
	2037	N GLY A 256	26.969	36.158			6
ATOM			26.408	36.858	58.117	1.00 26.11	
ATOM	2038		25.506				6
ATOM	2039	C GLY A 256	45.500				8
	2040	O GLY A 256	24.742	37.734			7
atom			25.599		58.072	1.00 27.85	,
ATOM	2041						5
MOTA	. 2042	CA THR A 257	24.757				ć
	2043	CB THR A 257	25.517	41.597	58.545		Č
MOTA			26.002		57.232	1.00 31.91	8
ATOM	2044						6
ATOM	2045	CG2 THR A 257	26.686				6
7.0.1	. 2046		23.477	40.392	57.722	1.00 20.35	_

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2061 2062 2063 2064 2065 2066 2067 2070 2071 2072 2073 2074 2075 2077 2078 2079 2080 2081 2082 2083 2084 2088 2088 2088 2088 2088 2088 2088 2088 2089 2090 2091 2092 2093 2094 2095 2099	PRO A 259 LEU A 260 LEU A 261 CD1 LEU A 261 CD2 LEU A 261 CD2 LEU A 262 CD1 LEU A 262 CD2 LEU A 262 CD3 CD4 CD4 CD5 CD6 CD6 CD7 CD7 CD7 CD8 CD8 CD9	19.705 21.067 18.817 17.736 19.565 19.1661 20.367 21.543 22.794 21.211 17.992 17.787 16.097 15.540 14.406 13.144 14.139 16.461 15.717 17.603 18.015 19.049 18.496 18.496 18.496 18.778 19.245 20.384 18.661 18.526 18.690 18.778 19.245 20.384 17.673 16.031 17.673 16.031 16.8210 17.230 17.882 18.985 16.665 17.897 18.965	41.966 43.002 42.357 43.149 42.939 41.897 41.709 43.786 43.606 42.570 42.411 540.888 40.189 40.400 138.984	54.381 52.377 51.796 50.568 49.294 48.412 47.226 48.962 47.780 46.918 45.746 351.451 51.293 51.333 51.016	1.00 44.22 1.00 44.14 1.00 46.67 1.00 54.61 1.00 63.02 1.00 68.35 1.00 66.23 1.00 69.08 1.00 69.08 1.00 69.01 1.00 43.89 1.00 44.80 1.00 40.37 1.00 38.06	6 8 6 8 7 6
ATOM	2107	O TYR A 264 N LEU A 265	17.897	7 40.400 L 38.980 4 38.640 5 39.21	51.333 4 51.016 5 50.538 1 49.173	1.00 40.37 1.00 38.06 1.00 33.48 1.00 32.43	7 6 6 6

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		CD2 LEU A 265		18.828	38.954	48.141	1.00 34.41	6
ATOM	2113				38.131	52.219	1.00 37.41	6
MOTA	2114	C LEU A 265		17.665				8
MOTA	2115	O LEU A 265		18.125	37.000	52.370	1.00 37.96	
				16.804	38.694	53.066	1.00 36.21	7
ATOM	2116			16.294	38.013	54.253	1.00 36.46	6
MOTA	2117	CA SER A 266					1.00 37.22	6
ATOM -	2118	CB SER A 266		17.263	38.136	55.427		
	2119	OG SER A 266		17.190	39.440	55.991	1.00 37.41	8 .
ATOM				14.997	38.705	54.653	1.00 35.55	6
MOTA	2120	C SER A 266				54.568	1.00 37.09	8
MOTA	2121	O SER A 266		14.889	39.927			
-	2122	N LYS A 267		14.018	37.928	55.093	1.00 34.33	7
MOTA				12.750	38.493	55.532	1.00 36.13	6
MOTA	2123				37.548	55.183	1.00 36.11	6
ATOM	2124	CB LYS A. 267		11.596			1.00 36.79	6
MOTA	2125	CG LYS A 267	•	11.503	37.222	53.705-		
	2126	CD LYS A 267		11.453	38.487	52.869	1.00 38.55	6
MOTA		CD DIS A 20.		11.369	38.170	51.389	1.00 41.60	6
MOTA	2127	CE LYS A 267			39.413	50.569	1.00 42.07	7 -
MOTA	2128	NZ LYS A 267		11.503			1.00 34.90	6
MOTA	2129	C LYS A 267		12.791	38.738	57.043	1.00 34.50	
	2130	O LYS A 267		11.758	38.867	57.694	1.00 37.18	8
ATOM				13.998	38.775	57.595	1.00 32.82	7
ATOM	2131				39.021	59.016	1.00 31.50	6
MOTA	2132	CA PHE A 268		14.192			1.00 34.05	6
ATOM	2133	CB PHE A 268		15.477	38.337	59.495		
	2134	CG PHE A 268		15.379	36.839	59.604	1.00 34.54	6
ATOM				16.506	36.087	59.940	1.00 35.04	6
MOTA	2135	CD1 PHE A 268				59.429	1.00 34.57	6
ATOM	2136	CD2 PHE A 268	•	14.161	36.178			6
MOTA	2137	CE1 PHE A 268		16.423	34.691	60.108	1.00 35.44	
		CE2 PHE A 268		14.066	34.784	59.594	1.00 36.00	6
MOTA	2138			15.201	34.040	59.936	1.00 34.68	6
ATOM-	2139	CZ PHE A 268			_	59.190	1.00 30.94	6
MOTA	2140	C PHE A 268		14.319	40.530		1.00 30.27	8
ATOM	2141	O PHE A 268		14.983	41.192	58.394		
	2142	N ASN A 269		13.693	41.081	60.222	1.00 32.53	7
MOTA				13.760	42.527	60.448	1.00 35.83	6
ATOM	2143	CA ASN A 269				60.570	1.00 37.23	6
MOTA	2144	CB ASN A 269		12.344	43.115		1.00 40.75	6
ATOM	2145	CG ASN A 269		11.478	42.809			
		OD1 ASN A 269		11.830	43.148	58.227	1.00 43.88	8
MOTA	2146			10.335	42.165	59.594	1.00 39.61	7
MOTA	2147	ND2 ASN A 269				61.710	1.00 35.45	6
MOTA	2148	C ASN A 269		14.553	42.854		1.00 41.47	8
ATOM	2149	O ASN A 269		14.095	43.621	62.560		
	2150	N LEU A 270		15.747	42.285	61.827	1.00 33.27	7
ATOM				16.571	42.510	63.004	1.00 30.68	6
MOTA	2151	CA LEU A 270			41.431	63.114	1.00 27.41	6
ATOM	2152	CB LEU A 270		17.638		62.988	1.00 23.76	6
ATOM	2153	CG LEU A 270		17.140	40.002			6
	2154	CD1 LEU A 270		18.222	39.106	63.543	1.00 27.14	
ATOM				15.855	39.801	63.772	1.00 28.00	6
MOTA	2155			17.258	43.856	63.Q33	1.00 32.30	6
MOTA	2156	C LEU A 270				62.017	1.00 36.27	8
MOTA	2157	O LEU A 270		17.347	44.554		1.00 30.33	7
ATOM	2158	N SER A 271		17.749	44.207	64.216		-
	2159	CA SER A 271		18.465	45.457	64.424	1.00 30.79	6
ATOM		CA SER N 272		17.816	46.249	65.562	1.00 29.53	6
ATOM	2160	CB SER A 271				66.739	1.00 30.43	8
ATOM	2161	OG SER A 271		17.712	45.471		1.00 33.09	6
ATOM	2162	C SER A 271		19.911	45.109	64.768	1.00 33.09	
				20.194	43.972	65.172	1.00 29.64	8
MOTA	2163	O SER A 271		20.821		64.586	1.00 32.36	7
ATOM	2164	N ASN A 272					1.00 31.65	6
MOTA	2165	CA ASN A 272		22.234		64.896	1.00 31.05	-
	2166	CB ASN A 272		23.036	47.141	64.771	1.00 33.76	6
ATOM				23.101		63.361	1.00 37.76	6
MOTA	2167	CG ASN A 272						8
ATOM	2168	OD1 ASN A 272		23.719				7
ATOM	2169	ND2 ASN A 272		22.460				
		C ASN A 272		22.369		66.321	1.00 32.61	6
ATOM	2170	C ASN A 272		22.970				8
ATOM	2171	0 ASN A 272						7
ATOM	2172	N VAL A 273		21.803				6
	2173	CA VAL A 273		21.839	45.741			0
ATOM				20.928			1.00 37.80	6
ATCM	2174	CB VAL A 273						6
ATCM	2175	CG1 VAL A 273		20.987				6
ATOM	2176	CG2 VAL A 273		21.356				
	2177	C VAL A 273		21.416	44.300	68.908		6
atom		0 237 3 272		22.060			1.00 35.96	8
ATCM	2178	O VAL A 273		22.000	3.500	•	•	

ATOM 21	-	ALA A 274		43.889 42.521	68.262 68.385	1.00 32.36 1.00 31.09	7 6
ATCM 21	_	ALA A 274	19.834 18.574	42.356		1.00 28.88	6
	-	ALA A 274	20.923	41.588	67.861	1.00 31.74	6
	-	ALA A 274 ALA A 274	21.323	40.634	68.533	1.00 31.54	8
		PHE A 275	21.401	41.879	66.655	1.00 30.05	7
	.84 N	PHE A 275	22.467	41.102	66.036	1.00 31.30	6
	.85 CA	PHE A 275	22.932	41.810	64.751	1.00 31.54	6
	.86 CB	PHE A 275	23.938	41.029	63.941	1.00 31.76	6
•••	187 CG 188 CD1	PHE A 275	23.597	39.809	63.365	1.00 32.40	6
• • • • • • • • • • • • • • • • • • • •	189 CD2	PHE A 275	25.219	41.529	63.729	1.00 34.04	6 6
• • • • • • • • • • • • • • • • • • • •	190 CE1	PHE A 275	24.513	39.100	62.586	1.00 32.27 1.00 33.90	6
	191 CE2	PHE A 275	26.149	40.828	62.950	1.00 33.90	6
	192 CZ	PHE A 275	25.793	39.613	62.378 67.040	1.00 34.30	6
	193 C	PHE A 275	23.632	40.999 39.950	67.200	1.00 29.41	8
	194 0	PHE A 275	24.252	42.099	67.726	1.00 31.22	7
ATOM 2	195 N	LEU A 276	23.908 24.988	42.033	68.698	1.00 32.29	6
	196 CA	LEU A 276	25.221	43.594	69.141	1.00 33.44	6
	197 CB	LEU A 276 LEU A 276	26.415	43.908	70.050	1.00 36.01	6
	198 CG	LEU A 276	26.683	45.391	70.025	1.00 35.02	6
71.20	_	LEU A 276	26.147	43.433	71.467	1.00 39.09	6
	200 CD2 201 C	LEU A 276	24.682	41.244	69.894	1.00 32.79	6
	202 0	LEU A 276	25.560	40.530	70.371	1.00 30.74	8 7
11.20.	202 O	LYS A 277	23.445	41.273	70.384	1.00 33.95 1.00 36.56	6
	204 CA	LYS A 277	23.086	40.413	71.505	1.00 35.76	6
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	205 CB	LYS A 277	21.623	40.588	71.902	1.00 42.31	6
	206 CG	LYS A 277	21.343	41.842	72.687 74.049	1.00 45.72	6
ATOM 2	207 CD	LYS A 277	20.743	41.508 40.601	74.865	1.00 47.87	6
ATOM 2	208 CE	LYS A 277	21.665 21.140	40.378	76.244	1.00 44.36	7
7.40	209 NZ	LYS A 277	23.302	38.974	71.092	1.00 37.98	6
411	210 C	LYS A 277 LYS A 277	23.875	38.179	71.845	1.00 37.54	8
	211 0	ALA A 278	22.832	38.654	69.886	1.00 37.17	7
	2212 N 2213 CA	ALA A 278	22.952	37.311	69.323	1.00 34.51	6
	2213 CA 2214 CB	ALA A 278	22.638	37.341	67.820	1.00 35.38	6 6
	2214 CB	ALA À 278	24.368	36.831	69.550	1.00 30.63 1.00 27.62	8
11	2216 0	ALA A 278	24.605	35.790		1.00 27.02	7
	2217 N	PHE A 279	25.303	37.624	69.049 69.167		6
	2218 CA	PHE A 279	26.722	37.347 38.558			6
	2219 CB	PHE A 279	27.490				6
ATOM	2220 CG	PHE A 279	28.974 29.578			1.00 41.15	6
		1 PHE A 279 2 PHE A 279	29.776	_	69.315	1.00 40.66	6
	2222 CD	1 PHE A 279	30.960		67.987	1.00 44.22	6
	2223 CE 2224 CE	2 PHE A 279	31.153		69.378	1.00 41.38	6
3.4	2224 CE		31.750	38.152			6 6
	2226 C	PHE A 279	27.116				8
	2227 0	PHE A 279	27.627				7
	2228 N	ASN A 280	26.860				6
	2229 CA	ASN A 280	27.192				6
	2230 CB	ASN A 280	26.927				6
ATOM	2231 CG	ASN A 280	27.907				8
ATOM	2232 OD	1 ASN A 280	29.117 27.395				7
ATOM		2 ASN A 280	26.524			5 1.00 30.01	6
ATOM	2234 C	ASN A 280 ASN A 280	27.16		4 74.419	1.00 29.58	8
ATOM	2235 0	ILE A 281	25.25		3 73.33	5 1.00 30.46	7
ATOM	2236 N 2237 CA		24.59	4 35.29	1 73.983		6
ATOM			23.10	7 35.16	1 73.56		6 6
ATOM		32 ILE A 281	22.54				
ATOM	2240 CC	31 ILE A 281	22.29				
ATOM ATOM	2241 CI	01 ILE A 281	20.83				
ATOM	2242 C	ILE A 281	25.33	0 34.00	6 73.63 1 74.43		
ATOM	2243 0	ILE A 281	25.38		_		-
ATOM	2244 N	VAL A 282	25.89	סע.ננ ס			
		•	•				

			26.654	32.785	72.005	1.00 36.45	6
MOTA		CA VAL A 282	27.084		70.524	1.00 35.62	6 .
MOTA	2246	CB VAL A 282				1.00 31.20	6
MOTA	2247	CG1 VAL A 282	•			1.00 34.51	6
MOTA	2248	CG2 VAL A 282	25.880	• • • • •			6
		C VAL A 282	27.919		72.857	1.00 37.80	
MOTA		> 202	28.182	31.722	73.532	1.00 36.12	8
MOTA			28.693	33.808	72.821	1.00 38.45	7
MOTA			29.929	33.884	73.587	1.00 40.06	6
MOTA	2252	CA ARG A 283		35.272	73.449	1.00 39.38	6
MOTA	2253	CB ARG A 283	30.551	35.625	72.027	1.00 41.90	6
MOTA	2254	CG ARG A 283 -	30.974	-	71.968	1.00 41.36	6
MOTA	2255	CD ARG A 283	31.492	37.048		1.00 43.35	7
MOTA		NE ARG A 283	32.647	37.206	72.840	1.00 43.33	6
		CZ ARG A 283	33.162	38.373	73.215	1.00 42.55	7
ATOM		NH1 ARG A 283	32.628	39.516	72.797	1.00 39.95	
MOTA		NH2 ARG A 283	34.220	38.392	74.014	1.00 41.72	7
MOTA			29.614	33.587	75.044	1.00 40.01	6
MOTA	2260	000	30.350	32.862	75.716	1.00 39.01	8
MOTA	2261	> 204	28.506	34.141	75.520	1.00 40.30	7
ATOM	2262	N GLU A 284	28.084	33.923	76.894	1.00 43.19	6
ATOM	2263	CA GLU A 284		34.647	77.165	1.00 47.53	6
ATOM	2264	CB GLU A 284	26.753	34.04/	77.090	1.00 56.10	6
ATOM	2265	CG GLU A 284	26.875	36.176		1.00 50.77	6
ATOM	2266	CD GLU A 284	25.542	36.923	77.179		8
MOTA	2267	OE1 GLU A 284	24.659	36.682	76.329	1.00 61.41	8
	2268	OE2 GLU A 284	25.383	37.763	78.096	1.00 62.21	
MOTA	2269	C GLU A 284	27.953	32.429	77.179	1.00 40.72	6
MOTA			28.565	31.922	78.120	1.00 45.29	8
MOTA	2270		27.186	31.721	76.354	1.00 34.82	7
MOTA	2271		26.975	30.288	76.551	1.00 30.84	6
MOTA	2272	CA VAL A 285	25.842	29.752	75.647	1.00 27.74	6
MOTA	2273	CB VAL A 285	25.698	28.253	75.831	1.00 22.95	6
ATOM	2274	CG1 VAL A 285		30.433	75.982	1.00 26.26	6
MOTA	2275	CG2 VAL A 285	24.545		76.341	1.00 31.93	6
ATOM	2276	C VAL A 285	28.181	29.366	77.214	1.00 33.46	8
MOTA	2277	O VAL A 285	28.492	28.556		1.00 29.43	7
ATOM	2278	N PHE A 286	28.845	29.466	75.191	1.00 24.26	6
MOTA	2279	CA PHE A 286	29.973	28.586	74.907	1.00 22.57	6
ATOM	2280	CB PHE A 286	29.830	27.957	73.519	1.00 22.37	6
	2281	CG PHE A 286	28.607	27.095	73.345	1.00 23.46	6
MOTA	2282	CD1 PHE A 286	27.409	27.639	72.885	1.00 23.90	
ATOM		CD2 PHE A 286	28.664	25.718	73.608	1.00 21.95	6
ATOM	2283	CE1 PHE A 286	26.281	26.814	72.681	1.00 24.90	6
ATOM	2284		27.547	24.892	73.411	1.00 18.06	6
MOTA	2285		26.357	25.437	72.945	1.00 20.23	6
ATOM	2286		31.368	29.200	74.991	1.00 25.14	6
MOTA	2287		32.338	28.566	74.560	1.00 23.16	8
MOTA	2288	O PHE A 286	31.480	30.416	75.525	1.00 25.51	7
MOTA	2289	N GLY A 287		31.065	75.614	1.00 26.86	6
ATOM	229	CA GLY A 287	32.783	31.511	74.270	1.00 26.28	6
ATOM	2291	C GLY A 287	33.353		73.271	1.00 26.29	8
ATOM	2292	O GLY A 287	32.644	31.549		1.00 27.17	7
ATOM	2293	N GLU A 288	34.637	31.849	74.238	1.00 33.20	6
MOTA	2294	CA GLU A 288	35.274	32.291	72.996	1.00 35.20	6
	3295	CB GLU A 288	36.680	32.828	73.269	1.00 35.09	6
MOTA	2296	CG GLU A 288	36.726	34.104	74.083	1.00 41.67	0
MOTA		CD GLU A 288	35.970	35.231	73.421	1.00 43.13	6
MOTA	2297	OE1 GLU A 288	36.221	35.493	72.228	1.00 45.39	8
MOTA	2298	OEI GLU A 288	35.130		74.097		8
MOTA	2299	OE2 GLU A 288			71.930		6
ATOM	2300	C GLU A 288	35.386		72.247		8
ATOM	2301	O GLU A 288	35.596				7
ATOM	2302	N GLY A 289	35.268				6
ATOM	2303	CA GLY A 289	35.373				5
ATOM	2304	C GLY A 289	35.948				6
	2305	O GLY A 289	36.556				7
ATOM	2306	N VAL A 290	35.764				6
ATOM	2307	CA VAL A 290	36.277	31.349			6
ATOM		CB VAL A 290	37.014		65.037	1.00 25.25	
ATOM	2308	CG1 VAL A 290	37.616		63.813		6
ATOM	2309		38.100			1.00 17.33	6
MOTE	2310	CGZ VAL A Z30	50.20		•		

2311 C VAL A 290 2312 O VAL A 290 2313 N TYR A 291	35.137 31.975 65.105 1.00 25.97 6 34.218 31.279 64.672 1.00 22.32 8 35.217 33.293 64.914 1.00 27.33 7 34.188 34.052 64.203 1.00 26.69 6
2314 CA TYR A 291	34.188 34.052 64.265 1.00 25.51 6 33.925 35.356 64.939 1.00 25.51 6
2316 CG TYR A 291	33.935 35.178 66.435 1.00 28.73 6
2317 CD1 TYR A 291	35.025 35.396 07.151 1.00 29.53 6
	32.874 34.565 67.094 1.00 27.39 6
2320 CE2 TYR A 291	32.898 34.377 68.400 1.00 31 85 6
	34 030 34.647 70.562 1.00 38.03 8
2323 C TYR A 291	34.527 34.345 62.745 1.00 27.99 8
2324 O TYR A 291	35.608 34.843 62.413 1.00 30.17 7
	33.726 34.220 60.441 1.00 28.26 6
2327 CB LEU A 292	33.301 32.002 200 24 64 6
2000	33 867 30.380 59.661 1.00 24.66 6
2330 CD2 LEU A 292	35.686 31.825 60.553 1.00 23.19 6
2331 C LEU A 292	32.649 35.173 55.611 1.00 18.11 8
200	32.869 35.749 58.770 1.00 28.55 7
2334 CA GLY A 293	31.878 36.653 58.223 1.00 31.26
2335 C GLY A 293	30.722 33.024 58.234 1.00 34.11 8
	30.036 36.312 56.689 1.00 35.34 7
2338 CA GLY A 294	28.918 35.581 56.124 1.00 34.84 6
2339 C GLY A 294	28.142 36.443 33.133 21.00 37.05 8
	26 917 36.035 54.842 1.00 31.87 7
2342 CA GLY A 295	26.102 36.806 53.925 1.00 27.78
2343 C GLY A 295	26 102 38 558 55 546 1.00 27.03 8
2006	25.596 39.119 53.450 1.00 24.67 /
2346 CA GLY A 296	25.440 40.327 33.737 1.00 27 64 6
206	26 591 41.163 51.771 1.00 26.65 8
	24.526 42.009 52.078 1.00 30.21 /
2350 CA TYR A 297	24.543 42.704 50.801 2.00 29.50 6
	23.717 40.516 49.953 1.00 30.33 6
2353 CD1 TYR A 297	23.174 39.810 51.031 1.00 30.86 6
2354 CE1 TYR A 297	23.450 38.443 31.226 1.00 31.20 6
	24 921 38 460 49.247 1.00 32 08 6
2357 CZ TYR A 297	24.275 37.781 50.332 1.00 30 60
> 207	24.357 44 195 50.875 1.00 32.07 6
	24.134 44.849 49.840 1.00 33.83 8
2361 N HIS A 298	24.180 44.725 52.054 1.00 33 94 6
	22 761 46.430 53.194 1.00 34.75 6
200 270 3 208	22.379 47.880 53.256 1.00 35.16 6
2365 CD2 HIS A 298	22.558 48.809 54.224 1.00 34.10 7
2366 ND1 HIS A 298	21 605 49.809 52.522 1.00 31.84 6
1 208	22.069 50.000 53.742 1.00 35.40
2369 C HIS A 298	25.213 46.697 52.352 1.00 33.83 8
2370 O HIS A 298	25.992 47.519 52.234 1.00 36.69 7
2372 CD PRO A 299	25.680 47.997 50.881 1.00 35.37
2373 CA PRO A 299	27.238 48.142 52.665 1.00 37.75 6
1 2374 CB PRO A 299	26.216 49.399 50.954 1.00 37.76 6
200	27.045 48.886 54.000 1.00 34.47 6
	2312 O VAL A 290 2313 N TYR A 291 2314 CA TYR A 291 2315 CB TYR A 291 2316 CG TYR A 291 2317 CD1 TYR A 291 2318 CE1 TYR A 291 2319 CD2 TYR A 291 2320 CE2 TYR A 291 2321 CZ TYR A 291 2322 OH TYR A 291 2323 C TYR A 291 2324 O TYR A 291 2325 N LEU A 292 2326 CA LEU A 292 2327 CB LEU A 292 2328 CG LEU A 292 2329 CD1 LEU A 292 2330 CD2 LEU A 292 2331 C LEU A 292 2333 N GLY A 293 2334 CA GLY A 293 2335 C GLY A 293 2336 O GLY A 293 2337 N GLY A 293 2338 CA GLY A 293 2339 C GLY A 293 2331 C LEU A 292 2333 N GLY A 293 2334 CA GLY A 293 2335 C GLY A 293 2336 O GLY A 294 2341 N GLY A 294 2342 CA GLY A 295 2343 O GLY A 295 2344 O GLY A 295 2345 C GLY A 295 2346 CA GLY A 295 2347 C GLY A 295 2348 O GLY A 295 2348 O GLY A 296 2347 C GLY A 297 2351 CB TYR A 297 2353 CD1 TYR A 297 2353 CD1 TYR A 297 2354 CE TYR A 297 2355 CD2 TYR A 297 2356 CE2 TYR A 297 2357 CZ TYR A 297 2358 OH TYR A 297 2359 C TYR A 297 2356 CE2 TYR A 297 2357 CZ TYR A 297 2358 OH TYR A 297 2358 OH TYR A 297 2359 C TYR A 297 2356 CE2 TYR A 297 2357 CZ TYR A 297 2358 OH TYR A 297 2359 C TYR A 297 2356 CE2 TYR A 297 2357 CZ TYR A 297 2358 OH TYR A 297 2359 C TYR A 297 2351 CB TYR A 297 2352 CD TYR A 297 2353 CD TYR A 297 2356 CE2 TYR A 297 2357 CZ TYR A 297 2358 OH TYR A 297 2359 C TYR A 297 2359 C TYR A 297 2351 CB TYR A 297 2352 CG TYR A 297 2353 CD TYR A 297 2354 CH TYR A 297 2355 CD2 TYR A 297 2356 CE2 TYR A 297 2357 CZ TYR A 297 2358 OH TYR A 297 2359 CD TYR A 297 2359 CD TYR A 297 2350 CD TYR A 297 2351 CB TYR A 297 2352 CD TYR A 297 2353 CD TYR A 297 2356 CD TYR A 297 2357 CD TYR A 298 2367 CEI HIS A 298 2368 NE2 HIS A 298 2369 C HIS A 298 2369 C HIS A 298 2369 C HIS A 298 2360 O TYR A 299 2375 CB FRO A 299 2375 CB FRO A 299

		O PRO A 299	27.781	48.670	54.963	1.00 33.67	8
ATOM	2377	O PRO A 299	26.051	49.763	54.026	1.00 32.69	7
ATOM	2378	N TYR A 300	25.745	50.521	55.227	1.00 32.97	6
MOTA	2379	CA TYR A 300		51.377	55.009	1.00 35.56	6
MOTA	2380	CB TYR A 300	24.496			1.00 35.96	6
ATOM	2381	CG TYR A 300	24.648	52.524	54.028		6
ATOM-	2382	CD1 TYR A 300	25.370	52.367	52.842	1.00 39.37	
	2383	CEL TYR A 300	25.461	53.405	51.907	1.00 39.92	6 .
ATOM		CD2 TYR A 300	24.016	53.752	54.259	1.00 35.92	6
MOTA	2384		24.098	54.793	53.334	1.00 36.78	6
MOTA	2385		24.823	54.612	52.161	1.00 38.09	6
MOTA	2386	CZ .TYR A 300	24.927	55.634	51.251	1.00 37.68	8
MOTA	2387	OH TYR A 300		49.546	56.3.69	1.00 31.10	6
MOTA	2388	C TYR A 300	25.497		57.440	1.00 30.62	8
ATOM	2389	O TYR A 300	26.062	49.692		1.00 32.55	7
MOTA	2390	N ALA A 301	24.661	48.541	56.125	1.00 32.33	6
MOTA	2391	CA ALA A 301	24.323	47.541	57.145	1.00 31.64	6 -
	2392	CB ALA A 301	23.216	46.602	56.624	1.00 24.69	
MOTA	2393	C ALA A 301	25.539	46.727	57.552	1.00 30.06	6
MOTA		O ALA A 301	25.848	46.579	58.734	1.00 31.91	8
MOTA	2394		26.223	46.192	56.557	1.00 28.94	7
MOTA	2395		27.404	45.383	56.795	1.00 30.55	6
MOTA	2396		28.012	45.002	55.441	1.00 31.83	6
MOTA	2397	CB LEU A 302	29.315	44.223	55.323	1.00 30.01	6
MOTA	2398	CG LEU A 302		43.781	53.888	1.00 32.09	6
MOTA	2399	CD1 LEU A 302	29.491		55.762	1.00 32.23	6
ATOM	2400	CD2 LEU A 302	30.475	45.077		1.00 29.79	6
ATOM	2401	C LEU A 302	28.418	46.136	57.663	1.00 27.68	8
MOTA	2402	O LEU A 302	28.796	45.676	58.746		7
MOTA	2403	N ALA A 303	28.842	47.299	57.179	1.00 27.92	
	2404	CA ALA A 303	29.818	48.119	57.877	1.00 25.00	6
ATOM	2405	CB ALA A 303	30.026	49.424	57.137	1.00 23.62	6
ATOM		C ALA A 303	29.39 7	48.397	59.305	1.00 25.06	6
MOTA	2406		30.088	48.015	60.248	1.00 26.90	8
MOTA	2407		28.258	49.054	59.472	1.00 24.06	7
MOTA	2408		27.794	49.382	60.810	1.00 24.37	6
ATOM	2409	CA ARG A 304		50.052	60.758	1.00 23.99	6
MOTA	2410	CB ARG A 304		51.257	59.815	1.00 28.77	6
ATOM	2411	CG ARG A 304	26.328		60.156	1.00 29.96	6
MOTA	2412	CD ARG A 304	25.106	52.089	60.369	1.00 36.43	7
ATOM	2413	NE ARG A 304	23.943	51.233		1.00 37.01	6
ATOM	2414	CZ ARG A 304	22.893	51.573	61.110		7
ATOM	2415	NH1 ARG A 304	22.854	52.757	61.713		7
ATOM	2416	NH2 ARG A 304	21.896	50.719	61.269	1.00 34.36	6
	2417	C ARG A 304	27.727	48.142	61.691	1.00 24.24	
MOTA	2418	O ARG A 304	28.343	48.099	62.762	1.00 22.34	8
MOTA		N ALA A 305	26.994	47.132	61.221	1.00 24.51	7
ATOM	2419		26.801	45.883	61.959	1.00 22.70	6
MOTA	2420		25.880	44.960	61.175	1.00 18.13	6
ATOM	2421	CB ALA A 305	28.089	45.142	62.351	1.00 23.33	· 6
MOTA	2422	C ALA : 305	28.237	44.725	63.506	1.00 21.51	8 `
ATOM	2423	O ALA . 305		44.961	61.411	1.00 22.79	7
ATOM	2424	N TRP 306	29.016		61.764	1.00 24.33	6
ATOM	2425	CA TRP A 306	30.244	44.270	60.524	1.00 26.93	6
ATOM	2426	CB TRP A 306	31.029	43.842			· 6
MOTA	2427	CG TRP A 306	30.604	42.503	59.952		6
MOTA	2428	CD2 TRP A 306	30.861	42.013	58.629	1.00 26.38	
	2429	CE2 TRP A 306	30.366	40.688		1.00 24.96	6
MOTA		CE3 TRP A 306	31.462	42.563	57.490	1.00 23.00	6
MOTA	2430	CD1 TRP A 306	29.983	41.484		1.00 28.53	6
ATOM	2431		29.837	40.392		1.00 25.62	7
MOTA	2432		30.450			1.00 24.51	6
ATOM	2433	CZ2 TRP A 306	31.548				6
ATOM	2434	CZ3 TRP A 306					6
MOTA	2435	CH2 TRP A 306	31.042				6
ATOM	2436	C TRP A 306	31.129				8
ATCM	2437	O TRP A 306	31.908				7
ATOM	2438	N THR A 307	3,1.003				6
ATOM			31.785				6
			31.484				8
ATOM		> 707	31.994	49.119	61.799		6
ATOM			32.120		64.137	1.00 24.72	0
ATOM	2442				•		

				٠	•								
. mc.:	2443 C	,	THR A 307		31.441			64.863	1.	.00 29.3	5	6 8	
MOTA			THR A 307		32.316			65.725	1.	.00 32.5	0	8 7	
MOTA	2444 O 2445 N	. 1	LEU A 308		30.159		5.857	65.135		.00 30.6	-	, 6.	
ATOM	2445 N		LEU A 308		29.740		5.555	66.490	1	.00 33.6 .00 34.4		6	
MOTA		В	LEU A 308		28.256		5.215	66.525	7	.00 34.4		6	
MOTA		:G	LEU A 308		27.338		7337	66.058		.00 34.7		6	
MOTA	2449 C	בם	LEU A 308		25.903		6.887	66.153	1	.00 36.9	_	6	
MOTA MOTA	2450 C	:D2	LEU A 308		27.569	4	8.542	66.924	1	.00 34.5	57	6	
ATOM	2451 C	:	LEU A 308		30.531		51.353	66.965 67.975	1	.00 33.7	75	8	
MOTA	2452 C)	LEU A 308		31.230		5.417	66.208	1	.00 35.		7	
ATOM	2453 N	1	ILE A 309		30.423		4.262 3.017	66.540	ī	.00 35.8	37	6	
ATOM		A	ILE A 309		31.108 30.939		1.949	65.431	1	.00 34.9	95	6	
ATOM		B	ILE A 309		31.733		0.695	65.799	1	.00 31.3	21	6	
MOTA		G2	ILE A 309		29.445		1.631	65.212	1	00 34.3	25	6	
MOTA			ILE A 309 ILE A 309		28.726		1.014	66.407	1	.00 25.	04	6	
ATOM		CD1	ILE A 309		32.589	4	3.238	66.772	1	00 35.	81	6	
MOTA		C 5	ILE A 309		33.183		2.617	67.657]	.00 38.	10.	8 7	
MOTA		Ŋ	TRP A 310		33.197		4.111	65.977		L.00 36. L.00 35.		6	
MOTA MOTA		CA	TRP A 310		34.612		4.384	66.169	-	1.00 32.	51	6	
MOTA		CB	TRP A 310		35.150		15.311	65.075 65.220		1.00 30.	79	6	
ATOM		CG	TRP A 310		36.619		15.588	65.274	-	1.00 29.	93	6	
ATOM		CD2	TRP A 310		37.679		14.620	65.474		1.00 28.	42	6	
ATOM		CE2	TRP A 310		38.882		45.330 43.224	65.174		1.00 31.	59	6	
MOTA		CE3	TRP A 310		37.731 37.206		46.804	65.380		1.00 30.	62	6	
MOTA		CD1	TRP A 310		38.565		46.659	65.536		1.00 29.	37	7	
ATOM		NEl	TRP A 310		40.126		44.691	65.578		1.00 27.	91	6	
MOTA		CZ2	TRP A 310 TRP A 310		38.978		42.585	65.279		1.00 28	.06	6	
ATOM	2471	CZ3 CH2			40.150		43.322	65.479		1.00 26	. 50	6	
ATOM-		Cnz	TRP A 310		34.744		45.040	67.545		1.00 36	.00	6 8	
MOTA	2473 2474	0	TRP A 310		35.365		44.476	68.440		1.00 36 1.00 34	. 24 57	7	
MOTA	2475	N	CYS A 311		34.134		46.213	67.715		1.00 34	82	6	
MOTA MOTA	2476	CA	CYS A 311		34.183		46.937	68.985 68.996	:	1.00 35	. 62	6	
MOTA	2477	ĊB	CYS A 311		33.169		48.085	67.796		1.00 32	.36	16	
ATOM	2478	SG	CYS A 311		33.439 33.912		46.061			1.00 32	.01	6	
MOTA	2479	С	CYS A 311		34.452		46.313			1.00 29	. 82	8	
ATOM	2480	0	CYS A 311 GLU A 312		33.062		45.049			1.00 32	.57	7	
MOTA	2481	N.	GLU A 312		32.731		44.159	71.171		1.00 33	.86	6	
ATOM	2482	CA CB	GLU A 312		31.557		43.252			1.00 34	. 19	6 6	
ATOM	2483 2484	CG	GLU A 312		30.442		43.185			1.00 40 1.00 43	27	6	
ATCM	2485	CD	GLU A 312		30.923		42.821			1.00 43	81	8	
MOTA MOTA	2486	OE1	1 GLU A 312		31.685		41.831) 5	1.00 41	.54	8	
MOTA	2487	CE2	2 GLU A 312		30.516		43.522			1.00 33	.77	6	
ATOM	2488	С	GLU A 312		33.953		43.298	7 72.60		1.00 32	2.07	8	
ATOM	2489	0	GLU A 312		34.253 34.641	7	42.945			1.00 33	3.45	7	
MOTA	2490	N	LEU A 313		35.848		42.135			1.00 32	2.89	6	
ATOM	2491	CA	LEU A 313 LEU A 313		36.17		41.513		5	1.00 32	2.14	6	
ATOM	2492	CB			35.15		40.493		6	1.00 2	7.73	6	
ATOM	2493	CG	1 LEU A 313		35.58		39.95	6 67.26		1.00 30	3.39	6	
ATOM		CD	2 LEU A 313		35.05		39.36			1.00 2	1.87	6 6	
ATOM		C	LEU A 313		36.97		43.03			1.00 3	1.04	8	
ATOM		ō	LEU A 313		37.60		42.79			1.00 3	3 49	7	
MOTA		N	SER A 314		37.20		44.06			1.00 3	5 59	6	
ATCM	- 400	CA	SER A 314		38.23		45.06			1.00 3	6.47	6	
ATOM ATOM		СВ	SER A 314		38.10		46.15			1.00 4	4.55	8	
ATOM		OG	SER A 314		39.14		47.12			1.30 3	7.82	6	5
ATOM		С	SER A 314		38.04	0	45.66			1.00 3	7.32	8	3
ATOM		0	SER A 314		39.01 36.79		46.04 45.72			1.00 3	8.05	7	7
ATCM		N	GLY A 315		36.79		46.24	-		1.00 4	2.42	ϵ	5
ATON	1 2505	C.	GLY A 315		36.29		47.74		68	1.00 4	6.80		5
ATON	1 2506	C	GLY A 315		35.92		48.27	- 4 -		1.00 4	7.85		3
ATC	1 2507		GLY A 315		36.51		48.43			1.00 4	8.90	-	7
ATC:		N	ARG A 316		,,,,	_ •		-					

MOTA	2509	CA ARG A 316	36.346		72.448	1.00 52.27	6
ATOM		CB ARG A 316	37.144		71.283	1.00 53.60	6 6
ATOM		CG ARG A 316	36.730		69.900	1.00 52.11 1.00 53.76	6
ATOM		CD ARG A 316	37.734		68.870	1.00 53.76	7
ATOM	2513	NE ARG A 316	39.028	49.854	69.019	1.00 55.34	6
ATOM -	2514	CZ ARG A 316	40.135	50.221	68.383	1.00 55.44	7
MOTA	2515	NH1 ARG A 316	40.110	51.253	67.552	1.00 55.80	7 .
MOTA	2516	NH2 ARG A 316	41.266	49.546	68.569 72.391	1.00 52.06	6
MOTA	2517	C ARG A 316	34.882	50.343	71.652	1.00 54.96	8
MOTA	2518	O ARG A 316	34.075 34.547	49.781 51.361	73.182	1.00 51.87	7
MOTA	2519.	N GLU A 317	33.185	51.900	73.222	1.00 52.67	6
ATOM	2520	CA GLU A.317		53.139	74.123	1.00 54.70	6
MOTA	2521	CB GLU A 317 CG GLU A 317		52.901	75.527	1.00 60.94	6
MOTA	2522			51.912	76.361	1.00 64.62	6
MOTA	2523	CD GLU A 317 OE1 GLU A 317		51.741	77.556	1.00 64.59	8 -
ATOM	2524	OE2 GLU A 317		51.302	75.832	1.00 68.64	8
ATOM	2525 2526	C GLU A 317		52.256	71.843	1.00 51.27	6
MOTA	2527	O GLU A 317		52.983	71.077	1.00 49.34	8
MOTA MOTA	2528	N VAL A 318		51.733	71.548	1.00 51.30	7
ATOM	2529	CA VAL A 318	30.780	51.962	70.280	1.00 48.80	6
MOTA	2530	CB VAL A 318	29.522	51.071	70.169	1.00 47.11	6
MOTA	2531	CG1 VAL A 318	28.875	51.237	68.808	1.00 45.53	6 6
ATOM	2532	CG2 VAL A 318	29.895	49.631	70.424	1.00 47.05 1.00 47.64	6
ATOM	2533	C VAL A 318	30.349	53.411	70.178	1.00 47.64	8
ATOM	2534	O VAL A 318		53.867	70.953	1.00 47.01	7
ATOM	2535	N PRO A 319		54.165	69.234 68.247	1.00 48.87	6
ATOM	2536	CD PRO A 319		53.836 55.569	69.093	1.00 52.54	6
ATOM	2537	CA PRO A 315		56.051	67.954	1.00 49.96	6
MOTA	2538	CB PRO A 319		54.802	67.141	1.00 50.17	6
MOTA	2539	CG PRO A 315 C PRO A 315		55.679	68.764	1.00 55.84	6
MOTA	2540			54.913	67.953	1.00 56.06	8
ATOM	2541 2542	N GLU A 32		56.624	69.402	1.00 59.20	7
MOTA	2542	CA GLU A 32		56.804	69.167	1.00 62.61	6
ATOM ATOM	2544	CB GLU A 32		57.588	70.313	1.00 65.59	6
ATOM	2545	CG GLU A 32	26.727	59.042	70.365	1.00 73.01	6
ATOM	2546	CD GLU A 32	26.007	59.823	71.451	1.00 76.93 1.00 77.37	6 8
ATOM	2547	OE1 GLU A 32	24.755	59.832	71.446	1.00 77.37	8
ATOM	2548	OE2 GLU A 32	26.697	60.431	72.303 67.863	1.00 73.40	6
MOTA	2549	C GLU A 32		57.551 58.197	67.699	1.00 62.33	8
MOTA	2550	O GLU A 32	25.663	57.463	66.939	1.00 59.47	7
MOTA	2551	N LYS A 32	1 27.650 1 27.519	58.150	65.662	1.00 59.54	6
ATOM	2552	CA LYS A 32 CB LYS A 32		59.648	65.897	1.00 61.36	6
MOTA	2553		_	60.323	66.366	1.00 65.23	6
MOTA	2554	CG LYS A 32		59.691	67.643	1.00 66.59	6
MOTA	2555 2556	CE LYS A 32		60.215	67.960	1.00 67.34	6
ATOM	2557	NZ LYS A 32		61.699	68.100	1.00 68.58	7
MOTA MOTA	2558	C LYS A 32		57.941	64.806	1.00 59.24	6
MOTA	2559	O LYS A 32		57.623	65.319	1.00 58.70	8
ATOM	2560	N LEU A 32	2 28.608	58.146	63.500	1.00 57.55	7
ATOM	2561	CA LEU A 32	2 29.702	58.002	62.543	1.00 54.72 1.00 52.96	6 6
ATOM	2562	CB LEU A 32		57.450	61.214	1.00 52.90	6
MOTA	2563	CG LEU A 32		56.316	61.295 59.899	1.00 49.01	6
ATOM	2564	CD1 LEU A 32	2 27.708	55.932	62.035	1.00 54.73	6
ATOM	2565	CD2 LEU A 32	2 28.716		62.313		6
MOTA	2566	C LEU A 32		59.406 60.383	62.464		8
MOTA	2567	O LEU A 32	2 29.512		61.965		7
ATOM	2568	N ASN A 32	3 31.530 3 32.089				6
ATOM	2569	CA ASN A 32				1.00 52.31	6
MOTA	2570	CB ASN A 32				1.00 55.06	6
MOTA	2571	CG ASN A 32	· -			1.00 55.77	. 8
ATCM	2572	ND2 ASN A 32			60.259	1.00 52.71	
ATOM	2573	C ASN A 3				1.00 48.63	6
ATOM	2574	- wan with			•		

	2525	_	ASN A 32		31.135	60.479	59.538	1.00 47.52	8
MOTA	2575	0			_				7
MOTA	2576	N	ASN A 32		32.426	62.304	59.792	1.00 47.66	
		CA	ASN A 32		32.242	62.769	58.419	1.00 49.25	6
MOTA	2577						58.292	1.00 50.73	6
ATOM	2578	CB	ASN A 32		32.758	64.200			
ATOM	2579	CG	ASN A 32		32.025	65.154	59.205	1.00 53.83	6
					30.812	65.314	59.096	1.00 56.90	8
ATOM	2580		ASN A 32				-		
ATOM	2581	ND2	ASN A 32		32.755	65.789	60.119	1.00 54.93	7
					32.906	61.891	57.367	1.00 49.34	6
ATOM	2582	С	ASN A 32						
ATOM	2583	0	ASN A 32	ı	32.275	61.502	56.379	1.00 47.22	8
			LYS A 32		34.182	61.590	57.586	1.00 48.27	7
MOTA	2584	N						1.00 46:57	6
MOTA	2585	CA	LYS A 32)	34.957	60.759	56.676		
	2586	CB	LYS A 32	i	36.314	60.453	57.305	1.00 49.94	6
MOTA					37.299	59.737	56.399	1.00 54.75	6
ATOM	2587	CG	LYS A 32						
ATOM	2588	CD	LYS A 32	<u> </u>	38.562	59.329	57.173	1.00 58.22	6
		CE	LYS A 32		39.236	60.521	57.844	1.00 58.35	6
ATOM	2589					60.128	58.566	1.00 59.81	7
ATOM	2590	NZ	LYS A 32)	40.473				
ATOM	2591	С	LYS A 32	5	34.202	59.458	56.410	1.00 44.85	6
			LYS A 32		34.065	59.027	55.263	1.00 43.59	8
MOTA	2592	0							7
MOTA	2593	N	ALA A 32	5	33.712	58.843	57.483	1.00 42.27	
	2594	CA	ALA A 32		32.964	57.59 7	57.387	1.00 40.91	6
ATOM						57.067	58.773	1.00 36.86	6
ATOM	2595	CB	ALA A 32)	32.663				
ATOM	2596	С	ALA A 32	5	31.666	57.803	56.612	1.00 43.30	6
			ALA A 32		31.342	57.028	55.705	1.00 42.83	8
ATOM	2597	0	WITH W 25	•				1.00 45.56	7
MOTA	2598	N	LYS A 32	7	30.918	58.843	56. 977		
	2599	CA	LYS A 32		29.657	59.146	56.306	1.00 47.23	6
MOTA						60.407	56.892	1.00 49.59	6
ATOM	2600	CB	LYS A 32		29.023				
MOTA	2601	CG	LYS A 32	7	28.547	60.263	58.329	1.00 54.63	6
			LYS A 32		28.024	61.591	58.862	1.00 55.89	ő
ATOM	2602	CD						1.00 58.28	6
ATOM	2603	CE	LYS A 32	i	27.529	61.483	60.299		
	2604	NZ	LYS A 32	7	26.304	60.644	60.426	1.00 59.91	7
MOTA					29.888	59.347	54.816	1.00 46.97	6
MOTA	2605	С	LYS A 32						8
ATOM	2606	0	LYS A 32	7	29.090	58.913	53.990	1.00 48.10	
	2607	N	GLU A 32		30.986	60.012	54.480	1.00 44.99	7
ATOM						60.264	53.091	1.00 43.18	6
ATOM	2608	CA	GLU A 32		31.325				
ATOM	2609	CB	GLU A 32	3	32.417	61.326	53.027	1.00 47.93	6
			GLU A 32		31.993	62.621	53.710	1.00 53.65	6
ATOM	2610	CG					53.831	1.00 55.79	6
ATOM	2611	CD	GLU A 32	3	33.112	63.630			
	2612	OF1	GLU A 32	3	33.642	64.060	52.783	1.00 58.73	8
ATOM		051	020 11 3	5	33.459	63.991	54.979	1.00 58.13	8
ATOM	2613	OEZ	GLU A 32					1.00 41.56	6
ATOM	2614	C	GLU A 32	В	31.789	58.971	52.437		
	2615	0	GLU A 32	R	31.537	58.743	51.255	1.00 39.41	8
MOTA					32.465	58.123	53.211	1.00 40.64	7
MOTA	2616	N	LEU A 32						6
MOTA	2617	CA	LEU A 32	9	32.940	56.844	52.695	1.00 36.45	
		CB	LEU A 32		33.623	56.032	53.801	1.00 34.70	6
ATOM	2618				34.100	54.610	53.433	1.00 35.69	6
ATOM	2619	CG	LEU A 32	9					6
MOTA	2620	CD1	LEU A 32	9	35.195	54.642	52.359	1.00 30.11	_
		CD3	LEU A 32	۵.	34.619	53.926	54.683	1.00 34.63	6
MOTA	2621		LEU A JA	_			52.157	1.00 35.77	6
ATOM	2622	С	LEU A 32		31.746	56.064			
MOTA	2623	0	LEU A 32	9	31.692	55.746	50.975	1.00 34.94	8
			LEU A 33		30.784	55.770	53.029	1.00 34.78	7
MOTA	2624	N						1.00 34.95	6
ATOM	2625	CA	LEU A 33	0	29.599	55.028	52.630	1.00 34.33	
ATOM	2626	CB	LEU A 33	0	28.631	54.914	53.803	1.00 30.95	6
					29.164	54.115	54.991	1.00 32.66	6
MOTA	2627	CG	LEU A 33					1.00 31.74	6
ATOM	2628	CD1	LEU A 33	0	28.051	53.,904	56.022	1.00 31.74	
		CDS	LEU A 33	0	29.674	52.769	54.509	1.00 30.73	6
MOTA	2629		770 7	Ň		55.631	51.428	1.00 37.28	6
MOTA	2630	С	LEU A 33		28.877			1 00 40 50	0
ATOM	2631	0	LEU A 33	0	28.395	54.901	50.557	1.00 40.56	8
			LYS A 33		28.806	56.957	51.383	1.00 38.24	7
MOTA	2632	N	LID W 3	_				1.00 39.59	6
ATOM	2633	CA	LYS A 33	1	28.140	57.661	50.294	1.00 33.33	
	2634	CB	LYS A 33	1	27.994	59.146	50.643	1.00 42.31	Ç
ATOM				-		59.399	51.873	1.00 45.93	6
ATCM	2635	CG	LYS A 33	+	27.129				
ATOM	2636	CD	LYS A 33	1	27.017	60.879	52.244	1.00 49.72	6
			LYS A 33		26.271	61.698	51.193	1.00 53.66	6
ATOM	2637	CE	TID W)	-			51.640		7
ATOM	2638	NZ	LYS A 33	Ţ	26.053	63.114			
	2639	С	LYS A 33	1	28.863	57.514	48.958	1.00 41.02	6
ATOM			LYS A 3	1	28.220	57.485	47.904	1.00 39.58	8
ATOM	2640	0	rio w i.	-	20.220	3,.400		_	
			•						

_							C7 41			1.00 4	12 69	7.
ATOM	2641	N S	ER A 332			192	57.41		19.005	1.00	46 03	6
		CA S	SER A 332	<u> </u>	30.	. 998	57.27	74 4	17.792	1.00	46.02	
MOTA			ER A 332		32	494	57.24	43 4	18.124	1.00	47.51	6
MOTA		CB S	EK A 332	•		862	56.06		18.823	1.00	50.97	8
MOTA	2644	OG S	SER A 332	'					47.040	1.00	48 51	6
ATOM		C 5	SER A 332	?		. 634	56.00			1.00	40.55	8
		0 9	SER A 332) .	30	.706	55.95	59 4	45.811	1.00	49.45	
MOTA	2646	0 3	25V V 225			. 241	54.98	82 4	47.786	1.00	51.56	7
MOTA	2647	N :	ILE A 333)			53.7		47.187	1.00	54.86	6
MOTA	2648	CA :	ILE A 333	3		. 869				1.00	E	6
	2649		ILE A.333		29	. 657	52.6		48.246	1.00	55.60	
MOTA			ILE A 333		29	.388	51.2	85	47.559	1.00	52.34	6
ATOM	2650					.892	52.5		49.140	1.00	56.89	6
MOTA	2651	CG1	ILE A 333	3						1 00	60.31	6
MOTA	2652	CD1	ILE A 333	3		.766	51.4		50.204	1.00	57.07	6
	2653	C	ILE A 33	3	28	. 579	53.8	13	46.396	1.00	57.07	
MOTA			ILE A 33		27	.572	54.3	21	46.897	1.00	55.59	8
MOTA	2654	0	TLE A 33.				53.3		45.160	1.00	61.14	7
MOTA	2655	N.	ASP A 33	4.		.623				1 00	65.55	6
ATOM	2656	CA .	ASP A 33	4		.456	53.3		44.281	1.00	60.10	6
	2657	CB	ASP A 33	4	27	.888	53.2	59	42.811	1.00	69.19	
ATOM			ASP A 33	<u>,</u>	28	.784	52.0		42.491	1.00	70.21	6
ATOM	2658						51.8		41.298	1.00	71.47	8
MOTA	2659	OD1	ASP A 33	4		.097				1.00	70.91	8
MOTA	2660	OD2	ASP A 33	4	29	.181	51.3		43.427			6
	2661		ASP A 33		26	.660	52.0	41	44.627		65.65	
MOTA		_	ASP A 33	1	26	.797	50.9		43.990	1.00	63.91	8
MOTA	2662	0	ASP A 33	4	20	622	52.1		45.649	1.00	65.73	7
ATOM	2663		PHE A 33			.822				1.00	63.44	6
	2664	CA	PHE A 33	5		.041	51.0	121	46.104			
ATOM		CB	PHE A 33	5	24	.980	51.0	34	47.632	1.00	58.05	6
MOTA	2665		N 33	_		.039	50.0	128	48.195	1.00	53.82	6
MOTA	2666	CG	PHE A 33				48.6		47.886	1 00	52.40	6
ATOM	2667		PHE A 33			.178				1.00	51.33	6
	2668	CD2	PHE A 33	5		.978	50.4	129	48.989	1.00	21.33	
ATOM			PHE A 33		23	.265	47.7	742	48.356		52.73	6
MOTA	2669					.062	49.5		49.462	1.00	53.20	6
ATOM	2670		PHE A 33				48.1		49.144	1.00	51.76	6
MOTA	2671	CZ	PHE A 33	5		2.204					65.55	6
	2672	С	PHE A 33	5	23	3.629	50.8		45.535	1.00	63.33	
MOTA		ō	PHE A 33		23	3.230	49.8	810	45.097	1.00	67.33	8
ATOM	2673					2.874	51.5		45.537	1.00	66.47	7
MOTA	2674	N	GLU A 33	0			51.9		45.048	1.00	67.43	6
MOTA	2675	CA	GLU A 33	86		L.497				1.00		6
	2676	CB	GLU A 33	16	2:	1.422	51.		43.626			6
ATOM		ĊĞ	GLU A 33		19	9.982	51.3	245	43.116	1.00		
MOTA	2677					9.868	50.	505	41.789		82.67	6
MOTA	2678	CD	GLU A 33	0			49.		41.734	1.00	83.29	8
ATOM	2679	OEl	GLU A 33	36		0.232				1 00	84.26	8
ATOM	2680	OE2	GLU A 33	36	13	9.410	51.		40.801			6
		. C	GLU A 33		2	0.655	51.	069	45.971		64.72	
ATOM	2681		GLU A 33			0.686	49.	840	45.876	1.00	59.84	8
MOTA	2682	0					51.		46.858	1.00	64.47	7
MOTA	2683	N	GLU A 33			9.901					65.83	6
ATOM	2684	CA	GLU A 3	37	1	9.045			47.805		64.30	6
		СВ	GLU A 3	37	1	8.398	52.	003	48.759		64.20	
MOTA	2685		GLU A 3			7.753	51.	370	49.964	1.00	64.26	6
MOTA	2686	CG			_	8.774	50	٥٤٦	50.850		64.04	6
MOTA	2687	CD	GLU A 3	3 /							61.66	8
ATOM	2688	OE1	GLU A 3	37	1	9.741		3.2	51.261		62.60	8
		OF2	GLU A 3	37	1	8.608	49.	483	51.132	1.00	63.64	
MOTA	2689		010 1 3	- · - 7		7.950		239	47.063	1.00	67.13	6
MOTA	2690	C	GLU A 3	3 <i>i</i>				807	46.205		68.27	8
MOTA	2691	0	GLU A 3			7.269		007			67.22	7
	2692	N	PHE A 3	38	1	7.779		960	47.394			6
MOTA		CA	PHE A 3	3.8	1	6.764	48.	.129	46.748	1.00	68.05	
MOTA	2693					6.445		919	47.626	1.00	69.68	6
ATCM	2694	CB	PHE A 3						47.187		72.35	6
MOTA	2695	CG	PHE A 3	38		5.228		.158			72.37	
		CD1	_		1	5.122		674	45.888		0 72.37	
ATCM	2696		_			4.172		.941	48.074		0 73.61	6
MOTA	2697	CD2	PRE A 3	J 0				.984	45.47		0 73.39	6
ATOM	2698	CE1	PHE A 3	38	1	3.980			47.67		0 73.26	
		CE2		38	1	3.024	45	. 250			0 72 24	
ATOM		CZ	PHE A 3		1	2.929	44.	.771	46.36		0 73.34	
ATOM	2700					5.48		.902	46.43	4 1.0	0 68.45	6
ATOM	2701	C	PHE A 3						45.31	_	0 67.92	8
ATOM		0	PHE A 3	38		5.28		.367		_	0 68.98	
		N	ASP A 3	39		4.60		.026	47.42	_	0 70 50	
ATOM		CA	ASP A 3		1	13.35	8 49	.759	47.26	1 1.0	0 70.68	
atom	2704	_				2.59		.758	48.58	8 1.9	0 71.06	, 6
ATOM	2705		ASP A 3	22					48.58	_	0 72.05	5 6
ATOM		CG	ASP A 3	139	1	11.38	7 20	.678				
	•		•									

ATOM	2707	OD1	ASP A	339	11.54		1.893	48.32		00 7 00 7	2.29	8 8	
MOTA	2708	OD2	ASP A	339	10.26		0.188 31.183	48.85		1.00 7	3.18	6	
MOTA	2709	C	ASP A	339	13.71 14.40		1.183	47.59	2 1	1.00 7	3.78	8	
MOTA	2710		ASP A	340	13.24	7 5	1.600	45.67		1.00 7		7	
MOTA	2711 2712	N CA	ASP A	340	13.51	8 9	2.943	45.15	-		78.34	6 6	
MOTA MOTA	2713	CB	ASP A	340	12.41		3.385	44.18		1.00	78.90	6	
ATOM	2714	CG	ASP A	340	12.46		52.655 51.408	42.85			78.38	8	
ATOM	2715	OD1	ASP A	340	12.34 12.62		53.336	41.8	30		78.74	8	
MOTA	2716	OD2 C	ASP A	340	13.68		54.017	46.23	_		79.51	6	
MOTA MOTA	2717 2718	0	ASP A	340	14.58	37	54.856	46.13		1.00	80.19 70 64	8 7	-
ATOM	2719	N	GLU A	341	12.82		54.000 54.998	47.23		1.00	80.05	6	
MOTA	2720	CA	GLU A GLU A		12.92 12.26		56.301	47.8		1.00	83.75	6	
ATOM	2721 2722	CB CG	GLU A		12.41		57.442	48.8		1.00		6 6	
MOTA MOTA	2723	CD	GLU A	341	11.75		58.724	48.3		1.00	91.52	8	
MOTA	2724	OE1	GLU A		10.53		58.738 59.716	48.1 48.1	02		92.65	8	
MOTA	2725	OE2	GLU A		12.48		54.578	49.5		1.00	77.98	6	
ATOM	2726	С 0	GLU A	341	11.10		54.610	49.7	77		79.82	8	
ATOM ATOM	2727 2728	N	VAL A	342	13.1	79	54.181	50.5		1.00	74.49 71.55	7	
ATOM	2729	CA	VAL A	342	12.7		53.793 52.383	51.8 52.2		1.00	72.40	6	
ATOM	2730	CB	VAL A		13.2		52.004	53.6		1.00	71.16	6	
MOTA	2731	CG1		342	12.7		51.391	51.2	207	1.00	74.35	6	
MOTA	2732 2733	CG2 C	VAL A	342	13.4		54.778	52.7		1.00	68.46 68.96	6	
MOTA MOTA	2734	ō	VAL A	342	12.9		55.154 55.184	53.8 52.3		1.00	61.61		7
ATOM	2735	N	ASP A	343	14.6 15.4	36 86	56.114	53.0		1.00	54.91		5
MOTA	2736	CA CB	ASP A	4 343 4 343	14.6	78	57.303	53.5	543	1.00	55.06		5
MOTA MOTA	2737 2738	CG	ASP A	343	15.5	56	58.390	54.		1.00	54.44 56.20		6 8
ATOM	2739	OD1	ASP A	343	15.0		59.351 58.287	54.0 53.5		1.00	49.32		8
ATOM	2740	OD2	ASP A	343 .	16.7 16.1		55.401	54.		1.00	50.85		6
MOTA	2741	0	ASP A	A 343 A 343	15.5		55.209	55.		1.00	49.32		8 7
MOTA MOTA	2742 2743	N	ARG A	A 344	17.3	96	55.004			1.00	47.84 45.34		6
ATOM	2744	CA	ARG A	A 344	18.1		54.321 53.099			1.00	45.00		6
ATOM	2745	CB	ARG	A 344 A 344	18.8		51.969			1.00	38.03		6
MOTA	2746 2747	CG CD	ARG A	A 344	17.3		51.531		188	1.00	35.83		6 7
ATOM ATOM	2748	NE	ARG .	A 344	16.2		50.439		885 724	1.00	39.20 39.89		6
ATOM	2749		ARG	A 344	15.3 15.3		49.993 50.561		917	1.00	40.17		7
ATOM	2750	NH	1 ARG 2 ARG	A 344	14.	566	48.976	55.	375	1.00	40.75	•	7 .
ATOM	2751 2 7 52		Z ARG . ARG	A 344	19.	250	55.278	55.	515	1.00	44.72	,	6 8
I)TA M.)TA	2753		ARG	A 344	20.		54.869		223 157	1.00) 46.97) 45.81	_	7
ATC:!	2754	N	SER	A 345	19. 20.		56.552 57.596		577	1.00	43.66	5	6
ATOM	2755		SER	A 345 A 345	19.		58.960	55.	.115	1.00	43.44		6
MOTA MOTA	2756 2757		SER	A 345	18.		59.260		.722	1.00	45.62 42.79	<u> </u>	8 6
ATOM			SER	A 345	20.	258	57.62° 57.902		.089 .552	1.00	42.62	2	8
ATOM	2759	9 0	SER	A 345		364 200	57.35		.851	1.0	0 40.5	5	7
ATOM				A 346 A 346		280	57.35		.308	1.0	0 41.0	5	6
ATOM			TYR	A 346	17.	971	56.81		.905		0 41.7 0 43.4	4. 7	6 6
ATOM ATOM		3 CG	TYR	A 346		668	55.35		.630 .328	_	0 44.4	, 5	6
ATOM	2764	4 CI	1 TYR	A 346		331	54.33 52.98		.088		0 41.0	2	6
ATOM	276			A 346 A 346		044 710	54.98		.682	1.0	0 42.0	8	6
ATOM				A 346	16.	416	53.64	4 58	.434	1.0	0 40.5	9	6 5
ATCM ATCM			TYR	A 346	17	:086	52.64		.139	_	0 41.6 0 39.6	Ö	8
ATOM		9 01	1 TYR	A 346	16.	. 806 . 466	51.32 56.51		.796	1.0	0 42.9	2	6
ATCM	277		TYR	A 346 A 346		.400 .101			.799	1.0	0 42.6	5	8
ATOM	1 277		TYR	A 347	20	757			.067		0 44.5	9	7
ATCM	1 277	<u>د</u> ۱۷						•					

								- 00 45 00	6
	2773	CA I	MET A 347		21.859	54.546	59.388	1.00 45.89	
ATOM		:			21.950	53.433	58.353	1.00 45.51	6
ATOM	2774	CB 1	MET A 347				58.244	1.00 45.01	6
MOTA	2775	CG 1	MET A 347		20.727	52.567		1 00 47 13	16
	2776		MET A 347		21.062	51.258	57.066		
ATOM					21.545	52.237	55.676	1.00 44.55	6
MOTA	2777		MET A 347				59.404	1.00 48.47	6
ATOM -	2778	c = 1	MET A 347		23.188	55.286	55.404	1.00 49.49	8
	2779	0 1	MET A 347		24.129	54.888	60.098		
MOTA	_		LEU A 348		23.259	56.351	58.610	1.00 49.03	7
MOTA	2780					57.178	58.499	1.00 48.86	6
ATOM	2781		LEU A 348		24.458			1.00 45.51	6
	2782	CB :	LEU A 348		24.355	58.082	57.269		
ATOM			LEU A 348		24.280	57.424	55.895	1.00 44.47	6
MOTA	2783				23.908	58.476	54.859	1.00 43.62	6
MOTA	2784	CD1	LEU A 348				55.565-	1.00 42.53	6
ATOM	2785	CD2	LEU A 348	•	25.618	56.757		1.00 40.33	6
	2786		LEU A 348		24.644	58.049	591.738	1.00 49.33	
MOTA			LEU A 348		25.765	58.369	60.123	1.00 49.78	8
MOTA	2787					58.428	60.358	1.00 48.34	7 -
MOTA	2788		GLU A 349		23.537			1.00 49.24	6
MOTA	2789	CA	GLU A 349		23.591	59.279	61.533	1.00 49.24	
			GLU A 349		22.198	59.848	61.811	1.00 48.36	6
MOTA	2790		GEU 1. 3 19		21.628	60.584	60.607	1.00 45.52	6
MOTA	2791		GLU A 349				60.065	1.00 42.94	6
MOTA	2792		GLU A 349		22.598	61.619		1.00 40.82	8
ATOM	2793	OE1	GLU A 349		22.934	62.560	60.812		
		0.23	GLU A 349		23.028	61.483	58.900	1.00 38.30	8
MOTA	2794		GLU A 349		24.119	58.531	62.745	1.00 48.32	6
MOTA	2795		GLU A 349				63.219	1.00 47.87	8
MOTA	2796	0	GLU A 349		25.226	58.783		1.00 48.97	7
	2797	N	THR A 350		23.325	57,602	63.248	1.00 40.97	
MOTA			THR A 350		23.744	56.832	64.398	1.00 50.70	6
MOTA	2798	CA			22.558	56.596	65.342	1.00 51.02	6
ATOM	2799	СВ	THR A 350				65.803	1.00 49.11	8
MOTA	2800	0G1	THR A 350		22.071	57.865		1.00 51.58	6
	2801	CG2	THR A 350		22.983	55.763	66.537		
MOTA		C	THR A 350		24.361	55.507	63.954	1.00 49.56	6
ATOM	2802		TIN A 350		23.979	54.947	62.923	1.00 50.55	8
MOTA	2803	0	THR A 350			55.028	64.725	1.00 46.88	7
MOTA	2804	N	LEU A 351		25.333			1.00 45.35	6
ATOM	2805	CA	LEU A 351		26.018	53.781	64.417	1.00 43.33	6
		CB	LEU A 351		27.342	53.726	65.185	1.00 47.05	
MOTA	2806		LEU A 351		28.257	52.502	65.072	1.00 49.54	6
ATOM	2807	CG	LEO H 331			52.777	65.766	1.00 51.50	6
ATOM	2808	CD1	LEU A 351		29.575			1.00 48.35	6
MOTA	2809	CD2	LEU A 351		27.603	51.302	65.692	1.00 40.22	6
	2810	C	LEU A 351		25.145	52.584	64.772	1.00 44.79	
MOTA			LEU A 351		25.131	51.578	64.061	1.00 41.45	8
MOTA	2811	0	LEO A 331		24.420	52.711	65.880	1.00 45.27	7
MOTA	2812	N	LYS A 352				66.375	1.00 44.62	6
ATOM	2813	CA	LYS A 352		23.531	51.662		1.00 42.23	6
	2814	CB	LYS A 352		23.764	51.464	67.873		
ATOM	_		LYS A 352		25.197	51.075	68.187	1.00 44.94	6
MOTA	2815	CG			25.572	51.262	69.650	1.00 46.80	6
MOTA	2816	CD	LYS A 352				70.581	1.00 45.79	. 6
MOTA	2817	CE	LYS A 352		24.765			1.00 47.31	7
ATOM	2818	NZ	LYS A 352		25.236	50.586	71.975	1.00 47.31	
		C	LYS A 352		22.096	52.087	66.116	1.00 45.12	6
MOTA	2819		TYC 3 352		21.837		65.756	1.00 47.07	8
ATOM	2820	0	LYS A 352				66.285	1.00 44.62	7
ATOM	2821	Ŋ	ASP A 353		21.162				6
ATOM	2822	CA	ASP A 353		19.761		66.060		č
		CB	ASP A 353		19.302	50.943	64.692	1.00 49.38	6
ATOM	2823		ASE A 353		19.813		64.396	1.00 51.52	6
ATOM	2824	CG	ASP A 353						8
MOTA	2825	OD1	ASP A 353		21.028				8
	2826	OD2			19.005				
MOTA			ASP A 353		18.841	50.968	67.165	1.00 45.90	6
MOTA	2827	С	ASP A 333					1.00 45.98	8
ATOM	2828	0	ASP A 353		19.152				
ATOM	2829	N	PRO A 354		17.687				
		CD	PRO A 354		17.162	52.775	66.587		
MOTA	2830				16.723			1.00 45.52	6
ATOM	2831	CA	PRO A 354	:	10.725				6
ATOM	2832	CB	PRO A 354		15.585				
	2833	CG	PRO A 354	ł	15.681				
MOTA			PRO A 354		16.277	7 49.804	68.188	1.00 44.13	
atom	2834	C			16.352			1.00 42.90	8
ATOM	2835		PRO A 354						7
ATOM	2836		TRP A 355	•	15.82				
	2837		TRP A 355	5	15.358				
ATCM			TRP A 35	5	14.982		70.539	1.00 47.11	. 0
ATOM	2838	CB	***** ** ***	-			-	•	

					160	46.752	71.322	1.00 52.43	6
MOTA	2839	CG	TRP A 355		16.168	45.391		1.00 53.15	6
MOTA	2840	CD2	TRP A 355		16.574 17.789	45.416		1.00 54.97	6
MOTA	2841	CE2	TRP A 355	-		44.153		1.00 53.39	6
MOTA	2842	CE3	TRP A 355		16.031	47.526	71.916	1.00 54.39	6
MOTA	2843	CD1	TRP A 355		17.125	46.731		1.00 57.31	7
ATOM	2844	NEl	TRP A 355		18.103		72.602	1.00 54.97	6
MOTA	2845	CZ2	TRP A 355		18.469	44.249	71.518	1.00 55.77	6
ATOM	2846	CZ3	TRP A 355		16.706	42.995 43.052	72.234	1.00 54.84	6
ATOM	2847	CH2	TRP A 355		17.913	47.690	68.230	1.00 41.94	6
MOTA	2848	С	TRP A 355		14.177	48.677	67.915	1.00 41.39	8
MOTA	2849	0	TRP A 355		13.508	46.471	67.775	1.00 38.60	7
ATOM	2850	И	ARG A 356		13.942	46.185	66.866	1.00 36.55	6
ATOM	2851	CA	ARG A 356		12.855	46.163	65.451	1.00 35.06	6
ATOM	2852	CB	ARG A 356		13.413	47.308	64.976	1.00 32.47	6
ATOM	2853	CG	ARG A 356		14.120	47.082	63.733	1.00 29.54	6
MOTA	2854	CD	ARG A 356		14.969 15.600	48.323	63.296	1.00 28.91	7
MOTA	2855	NE	ARG A 356		16.514	48.403	62.335	1.00 30.60	6
ATOM	2856	CZ	ARG A 356		16.916	47.305	61.702	1.00 33.52	7
ATOM	2857	NH1	ARG A 356		17.020	49.582	61.996	1.00 30.10	7
MOTA	2858	NH2	ARG A 356		12.270	44.879	67.361	1.00 36.01	6
ATOM	2859	C	ARG A 356		12.447	43.831	66.742	1.00 38.38	8
MOTA	2860	0	ARG A 356		11.587	44.949	68.499	1.00 36.04	7
MOTA	2861	N	GLY A 357		11.001	43.758	69.085	1.00 36.08	6
MOTA	2862	CA	GLY A 357		9.514	43.596	68.851	1.00 34.51	6
MOTA	2863	С	GLY A 357		8.943	44.196	67.943	1.00 36.77	8
MOTA	2864	0	GLY A 357		8.892	42.772	69.687	1.00 36.04	7
MOTA	2865	N	GLY A 358		7.466	42.506	69.593	1.00 32.26	6
MOTA	2866	CA	GLY A 358		7.106	41.263	70.385	1.00 29.85	6
MOTA	2867	C	GLY A 358		7.832	40.839	71.288	1.00 28.86	8 .
MOTA	2868	0	GLY A 358		5.975	40.667	70.055	1.00 30.88	7
MOTA	2869	N	GLU A 359		5.550	39.455	70.743	1.00 32.58	6
MOTA	2870	CA	GLU A 359		4.034	39.289	70.604	1.00 38.60	6
ATOM	2871	CB	GLU A 359 GLU A 359		3.230	40.435	71.222	1.00 47.44	6
MOTA	2872	CG	GLU A 359		1.957	40.762	70.445	1.00 50.93	6
MOTA	2873	CD	L GLU A 359		1.123	39.852	70.221	1.00 52.13	8
MOTA	2874				1.798	41.942	70.061	1.00 51.03	8
MOTA	2875	OE:	GLU A 359		6.250	38.275	70.091	1.00 28.29	6
ATOM	2876	C	GLU A 359		6.790	38.382	68.997	1.00 27.88	8
ATOM	2877	0	VAL A 360		6.263	37.147	70.772	1.00 27.97	7
ATOM	2878	N CA	VAL A 360		6.859	35.957		1.00 25.86	6
ATOM	2879 2880		VAL A 360		7.673	35.168	71.237	1.00 22.02	6 6
MOTA			1 VAL A 360		8.155	33.849		1.00 19.45	6
MOTA	2881 2882	CG	2 VAL A 360		8.850	36.009		1.00 17.88	6
ATOM	2883		VAL A 360		5.703	35.099	69.670	1.00 28.04	8
MOTA		_	VAL A 360		4.842		70.440	1.00 27.34	7
MOTA	2884 2885		ARG A 361		5.663			1.00 27.70 1.00 32.85	6
MOTA	2886				4.612				6
ATOM	2887				4.693				6
MOTA MOTA	2888				4.243				6
MOTA	2889				4.546				7
ATOM	2890		0.71		5.974				6
MOTA	2891				6.514				7
MOTA	2893				5.748				7
	2893		12 ARG A 361		7.822				6
MOTA	2894		ARG A 361		4.689				8
MOTA MOTA		-	ARG A 361		5.768				7
		-	LYS A 362		3.520				6
MOTA					3.430				6
MOTA					1.98				6
MOTA		-			1.01				6
MOTA		_	202		1.11	7 32.34			
ATOM					0.81		2 68.32		
ATOM					0.96				
ATOM		_	LYS A 362		4.32	0 29.80	9 67.83		
ATOM		_	7 ()		4.95	3 28.83	5 68.24	A T.00 22.42	
ATOM			-	•			-		

					•					. 00 4: 17	7
3 TOM	2905	N	GLU A	363		4.358	30.229		5.568	1.00 41.13 1.00 43.96	6
MOTA MOTA		CA	GLU A	363		5.147	29.554		5.539	1.00 45.90	6
MOTA		CB	GLU A	363		5.225	30.416		.278	1.00 50.68	6
MOTA	2908	ĊĠ	GLU A	363		3.892	30.876		3.741	1.00 54.11	6
	2909	CD	GLU A	363		4.045	31.738		2.507	1.00 53.90	8
ATOM	2910	OE1	GLU A	363		4.571	31.224		1.494	1.00 55.90	8
MOTA	2911	OE2	GLU A	363		3.648	32.927		2.552	1.00 56.05	6
MOTA	2912	c	GLU A	363		6.558	29.296		5.046	1.00 42.39	8
MOTA	2913	ō	GLU A	363		7.062	28.169		5.989	1.00 41.48	7
MOTA	2914	N	VAL A	364		7.183	30.360		5.540	1.00 37.27	6
MOTA	2915	CA	VAL A	364		8.535	30.29		7.064	1.00 35.30	6
MOTA	2916	CB	VAL A	364		9.038	31.69		7.469	1.00 36.88	6
MOTA	2917	CG1	VAL A			10.444	31.59	-	8.043	1.00 37.77	6
MOTA	2918	CG2	VAL A			9.018	32.62		6.252	1.00 34.78	6
MOTA	2919	c	VAL A			8.650	29.36	-	8.268	1.00 33.01	8
MOTA	2920	0	VAL A			9.622	28.61		8.379	1.00 31.55	7
MOTA	2921	N	LYS A			7.664	29.40		9.165	1.00 32.61	6
MOTA	2922	CA	LYS A	365		7.674	28.56		0.362	1.00 30.96	6
ATOM	2923	CB	LYS A	365		6.598	29.01		1.358	1.00 30.13	6
ATOM	2924	CG	LYS A	365		6.826	30.40		1.899	1.00 36.02	6
MOTA	2925	CD	LYS A	365		5.837	30.78	_	2.995	1.00 38.94	6
MOTA	2926	CE	LYS A			6.120	32.18		3.509	1.00 41.58	7
MOTA	2927	NZ	LYS A			5.191	32.61		4.585	1.00 44.29	6
MOTA	2928	c	LYS A	365		7.452	27.11		0.007	1.00 30.32	8
MOTA	2929	Õ	LYS A	365		8.195	26.23		0.442	1.00 31.32 1.00 29.85	7
ATOM	2930	N	ASP A	366		6.427	26.86		9.209	1.00 29.83	6
ATOM	2931	CA	ASP A	366		6.115	25.50		8.807	1.00 32.07	6
ATOM	2932	CB	ASP A	366		4.948	25.52		57.818	1.00 39.88	6
MOTA MOTA	2933	CG	ASP A	366		3.711	26.20		58.381	1.00 40.16	8
MOTA	2934	OD:	ASP A	366		3.124	25.69	92 6	59.359	1.00 43.21	8
ATOM	2935	OD2		366		3.326	27.26		67.848	1.00 43.21	6
MOTA	2936	C	ASP F	366		7.343	24.86	-	68.161	1.00 32.64	8
MOTA	2937	0	ASP A	366		7.753	23.70		68.540	1.00 31.89	7
ATOM	2938	N	THR 2	367		7.932	25.50		67.193	1.00 31.17	6
ATOM	2939	CA	THR A	A 367		9.088	25.0		66.490 65.572	1.00 31.55	6
ATOM	2940	CB	THR A	A 367		9.712	26.0		64.714	1.00 34.37	8
ATOM	2941	OG:	1 THR A	A 367		8.707	26.63 25.4		64.723	1.00 33.55	6
ATOM	2942	ÇG:	2 THR A	A 367		10.780	24.6		67.472	1.00 33.09	6
MOTA	2943	C	THR I	A 367		10.146			67.485	1.00 38.62	. 8
ATOM	2944	0	THR	a 367		10.586			68.298	1.00 31.85	7
MOTA	2945	N	LEU	A 368		10.570		-	69.288		6
ATOM	2946	CA		A 368		11.582 11.848			70.179		6
MOTA	2947	СЭ		A 368		12.887			69.588		6
MOTA	2948	CG		A 368		14.260			69.541	1.00 23.05	6
MOTA	2949	CD	1 LEU	A 368		12.473			68.193	1.00 26.53	6
ATOM	2950		2 LEU	A 368		11.157	24.0		70.107	1.00 35.16	6
ATOM	2951	C	LEU	A 368		11.910			70.217	1.00 35.18	8
MOTA	2952	0	LEU	A 368		9.942			70.649	1.00 37.56	7
MOTA	2953	N		A 369		9.431			71.442	1.00 40.23	6
ATOM	2954	CA		A 369		7.956			71.770) 1.00 42.07	6
MOTA	2955	CE		A 369		7.722			72.617	1.00 48.51	6
MOTA	2956		G LU	A 369		6.28			73.067	7 1.00 51.93	6
MOTE	2957			A 369 A 369		5.77			73.782	1.00 52.84	8
ATOM						5.65			72.710	1.00 58.33	8
MOTA	2959		2 GLU	A 369		9.63			70.70	1 1.00 41.14	6
MOTA			GLU	A 369		10.08			71.28	5 1.00 41.87	8
MOTA	2961		GLU	A 369		9.30			69.41		7
MOTA			LYS	A 370		9.49			68.63	6 1.00 38.26	6
MOTA	2963		LYS	A 370		9.14			67.16	6 1.00 40.63	6
ATOM	2964		S LYS	A 370		7.67			66.85	4 1.00 44.49	6
ATOM			LYS	A 370		7.49			6536	3 1.00 49.95	6
MOTA	2966		ראצ רייב	A 370		6.05		023	65.01	5 1.00 54.28	3 6
ATOM	2967		L LYS	A 370		5.89		679	63.57	4 1.00 55.44	7
ATOM	1 2968		LYS	A 370		10.94		034	68.73	0 1.00 37.85	5 6
ATOM	2969			A 370 A 370		11.26		930	69.15		5 . 8
	. ኅበማ/		1.46	m J/U							

					71	11	827	20	.944	68.	325	1.	00	37	.78	7	
MOTA	2971	N	ALA ALA				264		.704		340	1.	00	36	.39	6	
MOTA	2972	CA CB	ALA	м э А 3	71 71		007	22	.030	68.	200				.73	6	
MOTA	2973 2974	C	ALA	A 3	71	13.	719		. 972		603		00			6 8	
ATOM ATOM	2975	ō	ALA	A 3	71	14.	424		.964		525				.06 .96	7	
ATOM ATOM	2976	N	ALA	A 3	72		317		. 478		766				.22	6	
ATOM ATOM	2977	CA	ALA	A 3	72		695		.848		.024				.27	6	
ATOM	2978	СВ	ALA	A 3	72		946		.486		.165 .953				.75	6	
ATOM	2979	С	ALA	A · 3	72		.372		.362 .517		.338	1	. 00	31	.56	8	
ATOM	2980	0	ALA	A 3	72		.183		.059		. 432				.72	7	
MOTA	2981	N	ALA	A 3	573 -		.187 .710		.684		.305			32	.32	6	
MOTA	2982	CA	ALA				.206		.689		.103	1	.00	30	.18	6	
MOTA	2983	CB	ALA ALA	V 3	173		.385		.921		.172				.13	6	
MOTA	2984	C OTT1	ALA	A 3	, 73 173		.078	. 14	.926	70	.468				8.87	8	
ATOM	2985 2986	011	ALA	A 3	373		.218		3.320		.003				1.11	8 6	
ATOM	2987	ZN	ZN	Z 9	951		.693		1.497		.990		.00		5.45 9.27	8	
ATOM ATOM	2988		WAT		1	35	.654		.211		.416		.00		1.27	8	
ATOM	2989	OH2	WAT	S	2		.480		3.130		.069 .314		.00		4.69	8	
ATOM	2990	OH2	WAT	S	3	_	.124		0.277		.741		.00		7.94	8	
ATOM	2991	OH2	TAW	S	4		.839 .033		1.903		.522				4.54	8	
MOTA	2992		TAW		5	15	.039		2.130		.781	1	.00	2:	3.79	8	
MOTA	2993	OHZ	TAW	S	6 7	32	.737		1.397		.900		.00		5.80	8	
MOTA	2994		TAW TAW	2	8	11	.367		2.606	58	.814	1	00	2	3.37	8	
MOTA	2995	OH2			9	13	.909		8.160	-	.105				9.93	8	
MOTA	2996 2997	OH2			10	29	.655	_	6.108		3.029		00		0.54	8	
MOTA MOTA	2998	OH2			11	45	.405		7.964		1.885		00		9.28 2.78	8	
ATOM	2999		WAT	S	12	21	870		5.873	34	.515 3.779		1.00	_	8.85	8	
ATOM	3000	OH	TAW S	'S	13		3.504		5.670		3.430				0.53	8	
ATOM	3001	OH	TAW S	S	14		2.054		7.997 8.024		5.966		1.00		1.42	8	3
ATOM	3002	OH	raw s	S	15		9.730 7.503		2.289		4.336		1.00) 2	6.13	8	
MOTA	3003		raw s		16		7.303 5.101	_	6.102		4.434		1.00	0 2	1.69		3
MOTA	3004		YAT YAT		17 18		0.761		6.748	4	5.836	;	1.0		.5.79		3
MOTA	3005	OH	2 WAI		19		9.146	1	6.861	6	1.441		1.0		6.68		3 B
MOTA	3006 3007	OH	2 WAT	S	20		5.684	. 3	4.080		6.599		1.0		37.53 34.17		8
MOTA MOTA	3008		2 WA7		21		4.896		3.163	_	9.117		1.0 1.0		35.64		8
ATOM	3009	OH	2 WAT	rs	22		3.346		0.839		6.825 9.174		1.0	0 2	21.02		8
ATOM	3010	OH	2 WAT	r s	23		0.516		27.705 25.444		9.717	. 7	1.0	o i	29.80		8
ATOM	3011		2 WAS	rs	24		1.270 7.818		29.142	_	4.584		1.0	0 2	27.92		8
MOTA	3012	OH	2 WAS	rs	25 26		1.512		50.572		6.912		1.0	0	16.77		8
ATOM	3013		2 WA'	r S r S	27		1,21		33.582		8.34		1.0		23.93		8
MOTA	3014		2 WA'	T 5	28		7.80		24.638		6.61		1.0	0	23.73		8 8
ATOM	3015 3016		2 WA	_ ~	2.5	4	4.624	4 !	50.302		8.15	4	1.0	00	16.79		8
MOTA MOTA	3017		2 WA		3 v		1.09		16.437		1.31		1.0	00	26.61 32.28		8
MOTA	3018	OH	12 WA	T S	31		9.83		38.833		55.14 53.70	∧	1 (00	22.94		8
ATOM	3019	OH	12 WA	T S	32		1.66		43.60		3.75		1.0	00	26.85		8
ATOM	3020	OH	12 WA	T S	33		9.89		23.474 17.73		32.22		1.0	00	21.18		8
ATOM	3021		12 WA		34		4.62	-	15.91	-	52.44		1.0	00	27.01		8
MOTA	3022	-	12 WA		35 36	-	8.89		28.68		53.90		1.0	00	27.68	;	8
MOTA			12 WA	T 5		5	23.38		26.63	4 .	43.53		1.0	00	24.42	:	8
ATOM			i2 WA I2 WA	T 2			8.48		27.99	0	65.27		1.0	00	34.86) S	8
MOTA			12 WA	T 5	39		13.38	2	28.41	0 '	74.37	9	1.	00	25.68	S	8 8
ATOM			12 WA	T S			12.90	4	18.96		70.27		1.	00	29.45	,	8
ATOM	`		12 WA	T S		:	20.52	1	53.82	_	50.29		1.	00 00	23.32	2	8
MOTA MOTA		9 01	H2 WA	T S	42		13.31		38.92	_	48.40 60.01		1.	00	33.5	Ĺ	8
ATOM		0 0	H2 WA	T S	; 43		9.78		46.26	_	51.37	77	1	00	47.7	5	8
ATOM		1 0	H2 WA	T S	44		36.08		30.41 48.13		42.15		1.	00	50.9	6	8
ATOM		2 0	H2 WA	AT S	45		14.83 54.16		48.13	_	60.9		1.	00	22.6	6	8
ATOM	303		H2 W	AT S	46		38.94		61.29	_	63.50		1.	00	33.7	3	8
ATOM	303		H2 WA	AT S	5 47 5 48		29.98		18.11	-	33.13	30	1.	00	35.8	0	8
ATOM		_	H2 W/ H2 W/				31.87		50.67		44.5		1.	00	24.3	9	8
ATOM	1 303	ь O									•						

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2.0024	3037	OH2 WAT S	50	39.863	14.629	64.307	1.00 24.19	8
ATOM			51	26.119	29.471	38.549	1.00 27.78	8
MOTA	3038	••••			41.589	44.011	1.00 36.38	8
MOTA	3039	OH2 WAT S	52	48.070				8
ATOM	3040	OH2 WAT S	53	50.802	29.649	52.495	1.00 31.04	
MOTA	3041	OH2 WAT S	54	49.540	35.532	71.585	1.00 20.96	8
		OH2 WAT S	55	6.887	23.426	64.961	1.00 17.49	8
ATOM -	3042		56	25.698	39.891	37.674	1.00 51.51	8
atom	3043	OH2 WAT S			44.101	55.393	1.00 37.34	8
MOTA	3044	OH2 WAT S	57	45.498			1.00 44.52	8
ATOM	3045	CH2 WAT S	58	44.661	34.733	46.902		
ATOM	3046	OH2 WAT S	59	21.912	21.320	79.233	1.00 26.96	8
		OH2 WAT S	60	27.290	21.016	77.320	1.00 27.74	8
MOTA	3047	ONZ WAL S	61	19.809	49.810	61.716	1.00 46.14	8
MOTA	3048	OH2 WAT S.		30.843	18.035	41.441	1.00 42.23	8
MOTA	3049	OH2 WAT S	62			60.511	1.00 28.99	8.
MOTA	3050	OH2 WAT S	63	19.055	33.379			
ATOM	3051	OH2 WAT S	64	47.925	33.253	61.470	1.00 34.93	8
	3052	OH2 WAT S	65	32.500	36.000	41.000	1.00 35.33	8 -
ATOM		OH2 WAT S	66	27.245	56.551	44.579	1.00 34.19	8
MOTA	3053		67	5.176	32.914	54.669	1.00 41.89	8
MOTA	3054	OH2 WAT S		41.159	51.018	49.348	1.00 27.31	8
ATOM	3055	OH2 WAT S	68				1.00 31.30	8
MOTA	3056	CH2 WAT S	69	12.869	50.298	61.877		8
ATOM	3057	OH2 WAT S	70	17.499	12.826	63.854	1.00 24.91	
	3058	OH2 WAT S	.71	27.152	12.189	53.999	1.00 18.76	8
MOTA		_	72	25.213	54.809	67.866	1.00 61.35	8
MOTA	3059		73	17.671	48.515	53.188	1.00 37.63	8
atom	3060	OH2 WAT S			60.846	66.579	1.00 21.81	8
MOTA	3061	OH2 WAT S	74	23.765			1.00 34.04	8
MOTA	3062	CH2 WAT S	75	35.535	27.040	70.698		
ATOM	3063	CH2 WAT S	76	26.280	16.065	76.564	1.00 32.20	8
	3064	OH2 WAT S	77 ·	18.451	25.555	45.150	1.00 28.55	8
MOTA		CH2 WAT S	78	10.446	61.273	48.633	1.00 44.74	8
MOTA	3065		79	13.256	24.051	73,017	1.00 35.45	8
ATOM	3066	OH2 WAT S			13.292	69.937	1.00 49.49	8
MOTA	3067	OH2 WAT S	80	23.571			1.00 22.84	8
MOTA	3068	CH2 WAT S	81	29.891	18.071	46.109		8.
ATOM	3069	OH2 WAT S	82	12.886	42.723	75.807	1.00 35.31	
	3070	OH2 WAT S	83 ·	41.348	15.471	45.004	1.00 47.24	8
MOTA		OH2 WAT S	84	13.406	44.647	71.349	1.00 49.67	8
MOTA	3071		85	30.444	35.217	51.882	1.00 38.15	8
ATOM	3072			5.217	40.817	61.244	1.00 19.51	8
ATOM	3073	OH2 WAT S	86			56.838	1.00 30.72	8
MOTA	3074	CH2 WAT S	87	8.891	21.532			8
ATOM	3075	CH2 WAT S	88	41.816	25.022	72,452	1.00 22.92	
ATOM	3076	OH2 WAT S	89	50.621	36.644	60.248	1.00 29.29	8
	3077	OH2 WAT S	90	26.008	34.532	49.627	1.00 45.42	8
MOTA			91	8.131	39.168	54.903	1.00 31.50	8
MOTA	3078			16.591	58.091	57.551	1.00 34.73	8
MOTA	3079	OH2 WAT S	92			69.382	1.00 36.05	8
MOTA	3080	OH2 WAT S	93	34.773	54.065		1.00 35.49	8
ATOM	3081	OH2 WAT S	94	42.105	31.720	71.257		
ATOM	3082	CH2 WAT S	95	29.684	52.077	73.172	1.00 35.17	8
	3083	OH2 WAT S	96	26.411	37.426	38.934	1.00 41.68	8
MOTA			97	41.183	52.989	62.927	1.00 50.77	8
MOTA	3084			21.167	6.202	63.102	1.00 33.36	8
MOTA	3085	CH2 WAT S	98			36.669		8
MOTA	3086	OH2 WAT S	99	25.060	18.985		1.00 25.99	8
ATOM	3087	OH2 WAT S	100	37.304	39.027	73.722		
	3088		101	15.911	54.635	39.343	1.00 29.88	.8
ATOM			102	48.730	25.803	59.572	1.00 37.97	8
MOTE	3089			24.029	42.997	74.111	1.00 25.23	8
MOTA	3090	OH2 WAT S	103		21.773	46.986		8
ATOM	3091		104	42.477			1.00 44.21	8
ATOM	3092	OH2 WAT S	105	29.984	22.945	31.397		٥
	3093	OH2 WAT S	106	40.850	36.936	31.885		8
MOTA		OH2 WAT S	107	9.750	32.487	48.823	1.00 35.71	8
MOTA	3094		100	7.618	30.171	58.896		8
MOTA	3095	CH2 WAT S	100			59.767		8
ATOM	3096	CH2 WAT S	109	17.603	13.771			8
ATOM	3097	CH2 WAT S	110	22.590		67.501		
ATOM	3098	CH2 WAT S	111	21.034	29.771	76.056		8
		OH2 WAT S	112	24.791	14.674			8
MOTA	3099		113	40.750	47.494	54.056	1.00 46.98	8
atom	3100	OH2 WAT S	334	7.708	42.479		1.00 34.08	8
ATOM	3101	OH2 WAT S	114	32.375				8
ATOM	3102	OH2 WAT S	112	32.313	49.136	_,,,,,,,,		-

			_					
3.00M	3103	OH2 WAT S 116		5.596		_	1.00 39.15	8 8
ATOM ATOM	-	OH2 WAT S 117		20.194			1.00 19.73 1.00 27.16	8
ATOM	3105	OH2 WAT S 118		23.853	64.927	•	1.00 27.10	8
ATOM		OH2 WAT S 119		9.277	43.601		1.00 55.20	8
ATOM		OH2 WAT S 120		15.613	24.398	46.723 54.229	1.00 35.20	8
ATOM	3108	OH2 WAT S 121		33.110	16.122	33.852	1.00 37.49	8
ATOM		OH2 WAT 5 122		26.772	34.085 37.783	75.829	1.00 47.30	8
MOTA		OH2 WAT S 123		28.654 49.180	22.653	59.678	1.00 37.33	8
MOTA	-	OH2 WAT S 124		20.561	27.788	65.975	1.00 67.86	8
MOTA		OH2 WAT S 125 OH2 WAT S 126		34.251	13.344	57.366	1.00 36.18	8
MOTA				49.215	36.854	48.117	1.00 33.63	8
ATOM	3 -	OH2 WAT S 127 OH2 WAT S 128		45.826	19.588	41.601	1.00 44.07	8
MOTA		OH2 WAT S 129		18.693	56.382	64.014	1.00 47.77	8
MOTA		OH2 WAT S 130		44.181	24.202	36.963	1.00 32.70	8 8
ATOM ATOM	-	OH2 WAT S 131		19.160	51.901	38.133	1.00 54.07 1.00 42.21	8
ATOM		OH2 WAT S 132		16.904	36.558	48.679	1.00 42.21	8
ATOM	3120	OH2 WAT 5 133		46.851	26.029 41.533	34.353 68.647	1.00 45.99	8
ATOM	3121	OH2 WAT S 134		3.925	38.382	78.167	1.00 44.50	8
ATOM	3122	OH2 WAT S 135		44.590 6.384	19.317	71.166	1.00 28.17	8
MOTA	3123	OH2 WAT S 136		17.982	39.823	66.487	1.00 49.31	8
MOTA	3124	OH2 WAT S 137		8.317	22.286	61.863	1.00 43.42	8
MOTA	3125	OH2 WAT S 138 OH2 WAT S 139		29.248	14.196	55.622	1.00 35.55	8
MOTA	3126	OH2 WAT S 139 OH2 WAT S 140		30.377	33.180	80.320	1.00 43.94	8
MOTA	3127 3128	OH2 WAT S 141		41.842	32.906	27.392	1.00 24.82	8 8
MOTA	3129	OH2 WAT S 142		33.971	3.859	64.002	1.00 41.93	8
MOTA MOTA	3130	OH2 WAT S 143		27.314	8.087	70.916	1.00 49.03 1.00 32.70	8
MOTA	3131	OH2 WAT S 144		4.310	39.006	64.550 63.265	1.00 32.70	8
ATOM	3132	OH2 WAT S 145		2.940	19.950 47.625	60.121	1.00 44.24	8
ATOM	3133	OH2 WAT 5 146		24.134	53.746	42.337	1.00 47.82	8
ATOM	3134	OH2 WAT S 147		25.035 32.767	38.897		1.00 21.86	8
MOTA	3135	OH2 WAT S 148		37.145	57.288	47.392	1.00 36.13	8
MOTA	3136	OH2 WAT S 149 OH2 WAT S 150		25.171	18.011	32.273	1.00 38.04	8
ATOM	3137	OH2 WAT S 150		24.054	43.182	55.583	1.00 41.68	8
MOTA	3138 3139	OH2 WAT S 152		27.686	64.936	52.937	1.00 60.62	8 8
MOTA MOTA	3140	OH2 WAT S 153		24.084	39.543	76.589	1.00 22.62 1.00 46.98	8
ATOM	3141	OH2 WAT S 154		42.110	10.159	68.662 75.335	1.00 26.45	8
MOTA	3142	OH2 WAT S 155		9.675	22.905	52.857	1.00 33.84	8
ATOM	3143	OH2 WAT S 156		4.506 32.583	34.799 35.051		1.00 36.27	8
MOTA	3144	OH2 WAT S 157		40.341	58.311		1.00 54.69	8
MOTA	3145	OH2 WAT S 158 OH2 WAT S 159		29.473			1.00 28.59	8
MOTA	3146			11.829		56.138		8
ATOM	3147	OH2 WAT S 160 OH2 WAT S 161		24.247	48.010			8
ATOM	3148 3149	OH2 WAT S 162		ز 12.85	33.929			8 8
MOTA MOTA	3150	OH2 WAT S 163		9.49`				8
ATOM	3151	OH2 WAT S 164		27.424				8
ATOM	3152	OH2 WAT S 165		8.512				8
ATOM	3153	OH2 WAT S 166		30.721				8
ATOM	3154	OH2 WAT S 167		49.594 41.994				8
MOTA	3155	OH2 WAT 5 168		42.092			1.00 24.47	8
MOTA	3156	OH2 WAT S 169		34.547			1.00 38.65	8
ATOM		OH2 WAT 5 170 OH2 WAT 5 171		15.377			1.00 32.82	8
ATOM		OH2 WAT S 172		31.854		62.950		8
MOTA		OH2 WAT S 173		48.743	3 44.07	3 57.620		8
ATOM		OH2 WAT S 174		8.72	3 50.03			8 8
MOTA		OH2 WAT 5 175		14.25				
ATOM		OH2 WAT S 176		31.91	7 37.50			
MOTA ATOM		OH2 WAT S 177		23.92				
ATOM		OH2 WAT S 178		27.97				
ATOM		OH2 WAT S 179		7.85				
ATOM	3167	OH2 WAT S 180		22.08 34.78				8
ATOM		OH2 WAT S 181		. 34.70	· 40.22	•		
	•							

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3169 3170 3171 3172 3173 3174 3175 3177 3178 3180 3181 3188 3188 3188 3188 3188 318	OH2 WAT S	183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212	43.893 29.166 51.175 18.520 44.774 30.770 22.157 11.778 31.339 31.165 39.705 3.668 25.256 47.575 32.017 35.476 12.180 37.133 40.268 25.256 159 24.593 36.741 10.013 22.305 47.454 35.189 37.827 6.823 32.040 17.038 30.0015	35.526 21.424 51.545 46.208 30.219 9.460 39.535 50.526 60.910 14.244 15.398 34.304 9.360 17.667 13.045 16.270 21.226 15.7168 27.104 20.267 53.930 16.731 34.778 55.767 18.151 34.551 52.360 18.471	52:018 28:950 42:323 38:653 69:837 78:736 68:987 49:439 74:907 70:464 72:925 48:773 34:633 64:436 56:288 75:969 46:875 48:75	1.00 47.14 1.00 45.08 1.00 33.88 1.00 50.85 1.00 45.36 1.00 32.44 1.00 37.01 1.00 41.34 1.00 21.88 1.00 27.47 1.00 47.05 1.00 39.82 1.00 33.21 1.00 40.79 1.00 37.00 1.00 49.59 1.00 49.59 1.00 49.59 1.00 49.88 1.00 49.88 1.00 49.88 1.00 49.88 1.00 53.46 1.00 41.90 1.00 48.06 1.00 27.07 1.00 47.44 1.00 59.49 1.00 58.23 1.00 30.78 1.00 33.92	8888888888888888888888888888
	3197	OH2 WAT S		32.040	43.551			8
						_		
MOTA	3200	OH2 WAT S	213	23.045	28.615	33.729	1.00 44.22	8
MOTA	3201	OH2 WAT S	214	26.130	61.496	75.246	1.00 40.49	8
MOTA	3202	OH2 WAT S	215	33.881	32.473	46.604	1.00 39.35	8
MOTA	3203	OH2 WAT S	216	23.887	45.987	44.362	1.00 36.50	8
MOTA	3204		217	6.925	42.281	65.917	1.00 34.22	8
atom End	3205	OH2 WAT S	218	32.823	8.977	59.213	1.00 27.03	8

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				_		riguic re		_	_			
· mov	1	CD.			idue		Y	Z	В	Segment	ID	
ATOM	1 2	CB	ALA			46.725		138.208		56.80		
ATOM		C	ALA		2	47.943		138.561		58.93		
ATOM	3	0	ALA			48.857		137.884		60.99		
ATOM	4	N	ALA			46.995		140.488		56.88		
ATOM	5	CA	ALA			46.801		139.052		59.41		
ATOM-	6	N	LYS			47.890		138.903		53.81		
MOTA	7	CA	LYS	A 3		48.937		138.492		53.62		
MOTA	8	CB	LYS			48.736		139.156		50.26	•	
MOTA	9	CG	LYS			48.917		140.665		56.64		
ATOM	10	CD	TAS			48.950		141.285		57.18		
ATOM	11	CE	LYS			49.160		142.796		56.74		
MOTA	12	NZ	LYS			50.423		143.165		54.86		
MOTA	13	C	LYS			49.063		136.986		49.95		
ATOM	14	0	LYS			48.088		136.248		44.34		
ATOM	15	N	VAL			50.287	10.147	136.550		46.01		
ATOM	16	CA	VAL			50.609		135.142		42.48	-	
ATOM	17	CB	VAL			51.901		134.809		43.42		
ATOM	18	CG1	VAL			52.179		133.307		39.20		
ATOM ATOM	19 20	C	VAL VAL			51.773 50.787	12.186	135.310		39.34		
ATOM	21	0	VAL			51.659		134.806		38.41		
ATOM	22	N	LYS			49.959		135.351		37.08		
ATOM	23		LYS	A 5				133.899		37.79		
ATOM	24	CA CB	LYS			50.016 .48.700		133.515		38.17		
MOTA	25	CG	LYS			48.411		133.887 135.385		38.40		
MOTA	26	CD	LYS			49.384		135.385		42.84		
ATOM	27	CE	LYS			49.017		137.534		44.10		
ATOM	28	NZ	LYS			49.045		137.334		45.97 51.78		
ATOM	29	C	LYS			50.275		132.030		38.31		
ATOM	30	ō	LYS	A 5		49.992	7 253	131.201		38.13		
ATOM	31	N	LEU			50.817	5 220	131.717		35.05		
ATOM	32	CA	LEU			51.082		130.346		31.46		
ATOM	33	CB	LEU .			52.582		130.133		28.46		
ATOM	34	CG	LEU			53.094		128.720		30.91		
ATOM	35		LEU			52.618		128.295		33.05		
ATOM	36		LEU			52.630		127.744		21.96		
MOTA	37	C	LEU .			50.307		130.164		30.50		
ATOM	38	0	LEU Z			50.453		130.955		32.82		
ATOM	39	N	ILE A			49.459		129.145		26.94		
ATOM	40	CA	ILE !			48.676		128.893		28.29		
ATOM	41	CB	ILE A	A 7		47.218		128.493		28.94		
ATOM	42	CG2		A 7		46.499		128.041		32.57		
ATOM	43	CG1	ILE 2	A 7		46.447	3.172	129.688		36.59		
MOTA	44		ILE A			46.979		130.236	1.00	46.80		
ATOM	45	С	ILE 2			49.341	1.470	127.770	1.00	31.09	•	
ATOM	46	0	ILT 2	3 7		49.600	2.009	126.695	1.00	27.65		
ATOM	47	N	·GL: 3			49.638		128.029	1.00	27.30		
MOTA	48	CA	GLL A			50.277		127.016	1.00	25.50		
ATOM	49	С	GLY A			50.578		127.480		30.66		
ATOM	50	0	GLY A			50.224		128.592	1.00	30.02		
ATOM	51	N	THE A			51.238		126.611		28.94		
ATOM	52	CA	THE 2			51.614		126.877		33.63		
ATOM	53	CB	THR ?			50.393		126.857		36.19		
MOTA	54		THR :			50.827		126.992		34.87		
ATOM	55		THR A			49.633		125.548		36.49		
ATOM	56	C	THR A			52.567		125.794		34.83		
MOTA	57	0	THR A			52.545		124.677		36.91		
ATOM	58	N	LEU A			53.407		126.129		39.15		
MOTA	59	CA	LEU A		•	54.345		125.164		40.21		
ATOM	60	CB	LEU A			55.402		125.881		42.40		
ATOM	61	CG	LEU A			56.482		126.687		42.29		
ATOM	62		LEU A			55.870		127.647		42.92		
ATCM	63		LEU A			57.319		127.424	1.00			
ATCM	64	C	LEU A			53.591		124.159		41.70		
ATOM	65	0	LEU A			54.055		123.044		37.13		
MOTA	66	N	ASP A	11		52.419	-7.519	124.557	1.00	47.28		

ATOM 67 CA ASP A 11 51.61/ -8.608 124.887 1.00 52.33 ATOM 69 CG ASP A 11 50.230 -8.608 124.887 1.00 52.33 ATOM 70 ODI ASP A 11 50.230 -8.608 124.887 1.00 52.33 ATOM 71 OD2 ASP A 11 50.230 -8.883 126.565 1.00 52.21 ATOM 72 C ASP A 11 51.004 -10.388 125.685 1.00 52.21 ATOM 73 O ASP A 11 51.030 -8.883 126.567 1.00 58.33 ATOM 74 N TYR A 12 51.479 -7.840 122.257 1.00 53.33 ATOM 75 CA TYR A 12 51.275 -5.970 120.749 1.00 51.41 ATOM 76 CS TYR A 12 51.275 -5.970 120.749 1.00 51.41 ATOM 77 CG TYR A 12 50.296 -3.157 122.686 1.00 47.08 ATOM 78 CD TYR A 12 50.296 -3.157 122.686 1.00 47.08 ATOM 78 CD TYR A 12 49.525 -2.430 123.263 1.00 47.53 ATOM 80 CD TYR A 12 47.906 -2.847 121.310 1.00 44.16 ATOM 81 CEZ TYR A 12 47.906 -2.847 121.310 1.00 44.67 ATOM 82 CZ TYR A 12 47.906 -2.847 121.310 1.00 44.67 ATOM 83 CH TYR A 12 47.906 -2.847 121.310 1.00 44.67 ATOM 84 C TYR A 12 47.906 -2.847 121.310 1.00 44.58 ATOM 85 C TYR A 12 47.906 -6.503 119.816 1.00 50.01 ATOM 86 C TYR A 12 47.906 -6.503 119.816 1.00 50.01 ATOM 87 CA GIY A 13 54.916 -6.503 119.816 1.00 50.01 ATOM 88 C TYR A 12 52.167 -6.503 119.816 1.00 50.01 ATOM 89 C GIY A 13 54.916 -6.503 119.816 1.00 50.01 ATOM 90 N LYS A 14 52.167 -7.458 119.599 1.00 50.55 ATOM 90 N LYS A 14 52.202 -11.475 119.653 1.00 53.37 ATOM 91 CA LYS A 14 52.203 -11.475 119.920 7.00 50.55 ATOM 90 N LYS A 14 53.944 -11.373 1.154 1.19 9.10 7.00 50.55 ATOM 90 N LYS A 14 52.025 -11.475 119.91 1.00 62.81 ATOM 91 CA LYS A 14 52.027 -11.475 119.91 1.00 65.03 ATOM 91 CA LYS A 14 52.027 -11.475 119.91 1.00 60.03 ATOM 91 CA LYS A 14 53.046 -9.29 119.91 1.00 65.03 ATOM 90 N LYS A 14 53.046 -9.29 119.91 1.00 60.03 ATOM 91 CA LYS A 14 53.046 -12.062 120.591 1.00 65.05 ATOM 91 CA LYS A 14 53.046 -12.062 120.591 1.00 65.05 ATOM 91 CA LYS A 14 53.046 -12.062 120.591 1.00 65.05 ATOM 91 CA LYS A 14 54.747 -12.638 118.579 1.00 50.55 ATOM 91 CA LYS A 14 55.040 -10.91 11.37 1.11 1.00 1.00 65.06 ATOM 91 CA LYS A 14 54.747 -12.638 118.64 1.00 61.77 ATOM 96 NG LYS A 14 55.040 -10.91 1.00 60.03 ATOM 96 NG LYS A 14 55.040 -10						51.617 -8.369 123.683 1.00 53.30
ATOM 69 CG ASP A 11 ATOM 70 OD1 ASP A 11 ATOM 70 OD1 ASP A 11 ATOM 71 OD2 ASP A 11 ATOM 71 OD2 ASP A 11 ATOM 72 C ASP A 11 ATOM 72 C ASP A 11 ATOM 73 O ASP A 11 ATOM 74 N TYR A 12 ATOM 75 CA TYR A 12 ATOM 76 CB TYR A 12 ATOM 76 CB TYR A 12 ATOM 77 CG TYR A 12 ATOM 77 CG TYR A 12 ATOM 78 CD1 TYR A 12 ATOM 78 CD1 TYR A 12 ATOM 79 CE1 TYR A 12 ATOM 79 CE1 TYR A 12 ATOM 79 CE1 TYR A 12 ATOM 80 CD2 TYR A 12 ATOM 81 CE2 TYR A 12 ATOM 82 CT TYR A 12 ATOM 82 CT TYR A 12 ATOM 82 CT TYR A 12 ATOM 83 CT TYR A 12 ATOM 84 C TYR A 12 ATOM 85 C TYR A 12 ATOM 86 N GLY A 13 ATOM 86 N GLY A 13 ATOM 87 CA GLY A 13 ATOM 86 N GLY A 13 ATOM 87 CA GLY A 13 ATOM 88 C GLY A 13 ATOM 88 C GLY A 13 ATOM 89 C GLY A 14 ATOM 99 N LYS A 14 ATOM 90 N LYS A 14 ATOM 91 C GLYS A 14 ATOM 92 C GLYS A 14 ATOM 93 C GLYS A 14 ATOM 94 C GLYS A 14 ATOM 95 C GLYS A 14 ATOM 97 C LIYS A 14 ATOM 97 C LIYS A 14 ATOM 99 N TYR A 15 ATOM 99 N TYR A 16 ATOM 99 N TYR A 17 ATOM 99 N TYR A 17 ATOM 99 N TYR A 18 ATOM 99 N TYR A 19 AT	MOTA	67	CA	ASP A	11	74.02.
ATOM 69 CG ASP A 11	ATOM	68	CB	ASP A	11	30,230
ATOM 70 ODL ASP A 11					11	50.295 -9.331 125.610 1.00 53.33
ATOM 70 002 ASP A 11						51 004 -10.358 125.685 1.00 52.21
ATOM 72 C ASP A 11	MOTA					52,00
ATOM 72 C ASP À 11 ATOM 73 O ASP À 11 ATOM 74 N TYR À 12 ATOM 75 CA TYR À 12 S1.424 -6.521 122.092 1.00 51.92 ATOM 76 CG TYR À 12 ATOM 77 CG TYR À 12 S1.275 -5.970 120.749 1.00 51.41 ATOM 77 CG TYR À 12 S0.296 -3.157 122.686 1.00 47.08 ATOM 78 CD1 TYR À 12 S0.296 -3.157 122.686 1.00 47.08 ATOM 78 CD1 TYR À 12 S0.296 -3.157 122.686 1.00 47.53 ATOM 80 CD2 TYR À 12 49.252 -2.430 123.263 1.00 47.53 ATOM 81 CEZ TYR À 12 49.252 -2.430 123.263 1.00 47.53 ATOM 81 CEZ TYR À 12 49.252 -2.430 123.263 1.00 47.53 ATOM 82 CZ TYR À 12 49.252 -2.430 123.263 1.00 47.53 ATOM 83 OH TYR À 12 47.906 -2.887 121.310 1.00 44.16 ATOM 83 OH TYR À 12 47.906 -2.887 121.310 1.00 44.16 ATOM 84 C TYR À 12 52.367 -6.503 119.816 1.00 48.65 ATOM 85 O TYR À 12 52.367 -6.503 119.816 1.00 48.65 ATOM 86 N GLY À 13 53.484 -6.931 120.396 1.00 48.72 ATOM 87 CA GLY À 13 54.976 -8.727 118.857 1.00 53.32 ATOM 88 C GLY À 13 54.976 -8.727 118.857 1.00 53.32 ATOM 89 O GLY À 13 54.976 -8.727 118.857 1.00 53.37 ATOM 91 CA LYS À 14 52.052 -10.518 118.579 1.00 53.37 ATOM 92 CB LYS À 14 52.052 -11.475 119.653 1.00 54.36 ATOM 93 CG LYS À 14 53.086 -12.062 120.591 1.00 62.81 ATOM 94 CD LYS À 14 53.086 -12.062 120.591 1.00 62.81 ATOM 95 CE LYS À 14 55.147 -12.638 118.734 1.00 61.77 ATOM 96 NZ LYS À 14 55.147 -12.638 118.734 1.00 61.77 ATOM 97 C LYS À 14 55.148 -19.914 119.915 1.00 61.57 ATOM 98 O LYS À 14 55.145 -9.294 119.207 1.00 53.37 ATOM 99 N TYR À 15 ATOM 90 N TYR À 15 ATOM 90 N LYS À 14 55.147 -12.638 118.734 1.00 61.77 ATOM 90 N LYS À 14 55.147 -12.638 118.734 1.00 61.77 ATOM 91 CA LYS À 14 55.148 -19.913 1.11.372 1.00 66.70 ATOM 100 CA TYR À 15 ATOM 110 CB ARG À 16	MOTA	71	OD2	ASP A		20.000
ATOM 73 O ASP A 11 51.360 -8.626 121.311 1.00 54.31 ATOM 74 N TYR A 12 51.424 -6.521 122.092 1.00 51.41 ATOM 75 CA TYR A 12 51.226 -6.521 122.092 1.00 51.41 ATOM 75 CA TYR A 12 51.226 -4.437 120.755 1.00 49.05 ATOM 76 CB TYR A 12 50.164 -3.729 121.421 1.00 45.48 ATOM 77 CG TYR A 12 50.164 -3.729 121.421 1.00 45.48 ATOM 78 CDI TYR A 12 50.296 -31.57 122.696 1.00 47.08 ATOM 79 CEI TYR A 12 49.252 -2.430 123.263 1.00 47.58 ATOM 79 CEI TYR A 12 49.252 -2.430 123.263 1.00 47.58 ATOM 80 CDZ TYR A 12 49.252 -2.430 123.263 1.00 47.58 ATOM 81 CEZ TYR A 12 47.906 -2.847 121.310 1.00 44.16 ATOM 81 CEZ TYR A 12 47.906 -2.847 121.310 1.00 44.16 ATOM 82 CZ TYR A 12 47.906 -2.847 121.310 1.00 44.65 ATOM 83 CT TYR A 12 52.197 -6.503 119.816 1.00 48.65 ATOM 84 C TYR A 12 52.197 -6.503 119.816 1.00 48.55 ATOM 85 O TYR A 12 52.197 -6.503 119.816 1.00 48.55 ATOM 86 N GLY A 13 53.484 -6.931 120.396 1.00 48.75 ATOM 87 CA GLY A 13 54.196 -8.727 118.857 1.00 53.32 ATOM 89 O GLY A 13 54.196 -8.727 118.857 1.00 53.32 ATOM 89 O GLY A 13 54.196 -8.727 118.857 1.00 53.32 ATOM 90 N LYS A 14 52.055 -10.518 118.579 1.00 53.34 ATOM 91 CA LYS A 14 52.055 -10.518 118.579 1.00 53.34 ATOM 92 CB LYS A 14 52.055 -10.518 118.579 1.00 53.34 ATOM 93 CG LYS A 14 52.055 -10.518 118.579 1.00 53.35 ATOM 97 C LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 C LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 C LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 N LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 N LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 N LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 C LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 N LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 N LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 N LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 N LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 N LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 N LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 N LYS A 14 52.055 -10.518 118.579 1.00 58.03 ATOM 99 N LYS A 14 52.055 -10.		72	С	ASP A	11	34.432
ATOM 74 N TYR A 12					11	
ATOM 76 CA TYR A 12						
ATOM 75 CB TYR A 12	MOTA	74				
ATOM 76 CB TYR A 12 50.164 -3.729 121.421 1.00 45.48 ATOM 77 CG TYR A 12 50.296 -3.157 122.686 1.00 47.08 ATOM 79 CE1 TYR A 12 49.252 -2.430 123.263 1.00 47.53 ATOM 80 CD2 TYR A 12 49.252 -2.430 123.263 1.00 47.53 ATOM 81 CE2 TYR A 12 48.952 -3.565 120.749 1.00 43.77 ATOM 81 CE2 TYR A 12 48.952 -3.565 120.749 1.00 44.16 ATOM 82 CZ TYR A 12 48.061 -2.279 122.566 1.00 48.67 ATOM 83 OH TYR A 12 47.030 -1.548 123.116 1.00 44.16 ATOM 84 C TYR A 12 52.367 -6.503 119.816 1.00 48.65 ATOM 84 C TYR A 12 52.367 -6.503 119.816 1.00 48.65 ATOM 85 O TYR A 12 52.197 -6.525 118.596 1.00 48.72 ATOM 87 CA GLY A 13 54.574 -7.458 119.599 1.00 50.05 ATOM 88 C GLY A 13 54.574 -7.458 119.599 1.00 50.55 ATOM 89 O GLY A 13 54.951 -9.294 119.207 1.00 53.32 ATOM 89 O GLY A 13 54.951 -9.294 119.207 1.00 53.37 ATOM 91 CA LYS A 14 52.052 -11.518 118.579 1.00 53.37 ATOM 92 CB LYS A 14 52.052 -11.518 118.579 1.00 54.56 ATOM 92 CB LYS A 14 52.052 -11.475 119.653 1.00 68.02 ATOM 94 CD LYS A 14 53.045 -9.294 119.207 1.00 53.37 ATOM 95 CE LYS A 14 53.045 -9.294 119.207 1.00 53.37 ATOM 96 NZ LYS A 14 53.036 -12.062 120.591 1.00 62.81 ATOM 97 C LYS A 14 53.036 -12.062 120.591 1.00 62.81 ATOM 98 O LYS A 14 53.036 -12.062 120.591 1.00 62.83 ATOM 99 N TYR A 15 50.091 -8.563 116.942 1.00 51.71 ATOM 96 NZ LYS A 14 53.934 -13.154 119.918 1.00 61.61 ATOM 98 O LYS A 14 53.934 -13.154 119.918 1.00 61.61 ATOM 98 O LYS A 14 55.514 -13.713 118.045 1.00 58.02 ATOM 99 N TYR A 15 50.091 -8.563 116.449 1.00 62.81 ATOM 100 CA TYR A 15 50.091 -8.563 116.449 1.00 51.71 ATOM 96 NZ LYS A 14 51.455 -10.231 117.559 1.00 52.03 ATOM 97 C LYS A 14 51.455 -10.231 117.559 1.00 50.40 ATOM 100 CA TYR A 15 50.091 -8.563 116.449 1.00 61.61 ATOM 100 CA TYR A 15 50.091 -8.563 116.449 1.00 62.81 ATOM 100 CA TYR A 15 50.091 -8.563 116.388 1.00 66.70 ATOM 100 CA TYR A 15 48.666 -8.793 118.386 1.00 55.40 ATOM 100 CA TYR A 15 48.666 -8.793 118.386 1.00 55.40 ATOM 100 CA TYR A 15 48.666 -8.793 118.386 1.00 55.40 ATOM 100 CA TYR A 15 48.666 -8.793 118.3886 1.00 55.40 ATOM 100 CA TYR A 15	MOTA	75	CA	TYR A	12	
ATOM 77 CG TYR A 12 50.164 3.729 121.421 1.00 47.08 ATOM 78 CD1 TYR A 12 50.296 -3.157 122.686 1.00 47.08 ATOM 80 CD2 TYR A 12 49.252 -2.430 123.263 1.00 47.08 ATOM 81 CE2 TYR A 12 48.952 -3.555 120.749 1.00 43.77 ATOM 81 CE2 TYR A 12 48.961 -2.279 122.566 1.00 48.67 ATOM 82 CZ TYR A 12 47.906 -2.847 121.310 1.00 44.16 ATOM 83 CH TYR A 12 47.906 -2.847 121.310 1.00 48.65 ATOM 84 C TYR A 12 52.197 -6.503 119.816 1.00 50.01 ATOM 85 O TYR A 12 52.197 -6.503 119.816 1.00 50.01 ATOM 86 N GLY A 13 53.484 -6.931 120.396 1.00 48.75 ATOM 87 CA GLY A 13 54.574 -7.458 119.599 1.00 50.56 ATOM 88 C GLY A 13 54.196 -8.727 118.857 1.00 53.32 ATOM 89 O LYS A 14 53.045 -9.294 119.207 1.00 53.37 ATOM 91 CA LYS A 14 52.555 -10.518 118.579 1.00 53.37 ATOM 92 CB LYS A 14 52.052 -11.475 119.653 1.00 62.81 ATOM 93 CG LYS A 14 53.045 -9.294 119.207 1.00 53.37 ATOM 94 CD LYS A 14 53.094 -12.062 120.591 1.00 62.81 ATOM 95 CE LYS A 14 53.094 -12.062 120.591 1.00 62.81 ATOM 96 NZ LYS A 14 55.514 -13.713 118.045 1.00 58.02 ATOM 97 C LYS A 14 55.514 -13.713 118.045 1.00 58.03 ATOM 98 O LYS A 14 55.514 -13.713 118.045 1.00 58.03 ATOM 99 N TYR A 15 50.091 -8.563 116.499 1.00 51.71 ATOM 90 N TYR A 15 50.091 -8.563 116.490 1.00 52.03 ATOM 90 N TYR A 15 50.091 -8.563 116.490 1.00 52.03 ATOM 90 N TYR A 15 50.091 -8.563 116.490 1.00 52.03 ATOM 100 CA TYR A 15 50.091 -8.563 116.490 1.00 52.03 ATOM 100 CC TYR A 15 48.959 -7.915 117.253 1.00 54.67 ATOM 100 CC TYR A 15 48.959 -7.915 117.253 1.00 55.40 ATOM 101 CB TYR A 15 48.959 -7.915 117.253 1.00 55.69 ATOM 102 CG TYR A 15 48.959 -7.915 117.253 1.00 55.40 ATOM 103 CD LYR A 15 48.959 -7.915 117.253 1.00 55.40 ATOM 104 CEI TYR A 15 48.959 -7.915 117.253 1.00 55.40 ATOM 105 CD TYR A 15 48.959 -7.915 117.253 1.00 55.61 ATOM 107 CZ TYR A 15 48.959 -7.915 117.253 1.00 55.63 ATOM 108 OH TYR A 15 48.959 -7.915 117.253 1.00 55.63 ATOM 109 C TYR A 15 48.959 -7.915 117.253 1.00 66.70 ATOM 110 NA ARG A 16 57.720 -7.559 111.09 250 1.00 55.63 ATOM 120 C ARG A 16 57.720 -7.559 111.09 1.00 55.63 ATOM 120 C ARG A 16		76	CB	TYR A	12	54.520
ATOM 78 CD1 TYR A 12					12	
ATOM 78 CDL TYR A 12						
ATOM	ATOM	78				30.230
ATOM 80 CD2 TYR A 12 48.952 -3.563 120.049 41.6 ATOM 81 CE2 TYR A 12 47.906 -2.847 121.310 1.00 44.16 ATOM 82 CZ TYR A 12 48.061 -2.279 122.556 1.00 48.67 ATOM 83 OH TYR A 12 47.000 -1.548 123.116 1.00 48.65 ATOM 84 C TYR A 12 52.367 -6.503 119.816 1.00 48.65 ATOM 85 O TYR A 12 52.367 -6.503 119.816 1.00 45.56 ATOM 85 O TYR A 12 52.367 -6.503 119.816 1.00 45.56 ATOM 87 CA GLY A 13 53.484 -6.931 120.396 1.00 48.72 ATOM 87 CA GLY A 13 53.484 -6.931 120.396 1.00 50.55 ATOM 88 C GLY A 13 54.574 -7.458 119.599 1.00 50.55 ATOM 89 O GLY A 13 54.956 -7.458 119.599 1.00 53.32 ATOM 89 O GLY A 13 54.956 -8.727 118.857 1.00 53.32 ATOM 90 N LYS A 14 53.045 -9.294 119.207 1.00 53.37 ATOM 91 CA LYS A 14 52.052 -10.518 118.579 1.00 54.56 ATOM 92 CE LYS A 14 52.052 -10.518 118.579 1.00 54.56 ATOM 92 CE LYS A 14 53.086 -12.062 120.591 1.00 62.81 ATOM 94 CD LYS A 14 53.086 -12.062 120.591 1.00 61.61 ATOM 95 CE LYS A 14 53.934 -13.154 119.918 1.00 61.61 ATOM 95 CE LYS A 14 55.514 -13.713 118.045 1.00 58.02 ATOM 97 C LYS A 14 55.514 -13.713 118.045 1.00 58.03 ATOM 97 C LYS A 14 55.514 -13.713 118.045 1.00 58.35 ATOM 99 N TYR A 15 50.991 -8.563 116.449 1.00 61.77 ATOM 99 N TYR A 15 50.991 -8.563 116.449 1.00 47.99 ATOM 100 CA TYR A 15 48.959 -7.9915 117.253 1.00 52.03 ATOM 101 CB TYR A 15 48.856 -8.793 118.386 1.00 53.01 ATOM 102 CG TYR A 15 48.866 -8.255 119.637 1.00 52.03 ATOM 103 CD1 TYR A 15 48.866 -8.255 119.637 1.00 52.03 ATOM 104 CE1 TYR A 15 48.866 -8.255 119.637 1.00 53.01 ATOM 107 CZ TYR A 15 48.866 -8.255 119.637 1.00 55.69 ATOM 107 CZ TYR A 15 48.866 -8.255 119.637 1.00 50.40 ATOM 108 OH TYR A 15 48.969 -7.915 119.637 1.00 50.40 ATOM 107 CZ TYR A 15 48.969 -7.915 119.637 1.00 50.40 ATOM 107 CZ TYR A 15 48.969 -7.915 119.637 1.00 50.40 ATOM 107 CZ TYR A 15 48.969 -7.915 119.637 1.00 50.40 ATOM 108 OH TYR A 15 48.969 -7.915 119.637 1.00 50.60 ATOM 108 OH TYR A 15 48.969 -7.915 119.637 1.00 50.60 ATOM 107 CZ TYR A 15 48.969 -7.915 119.637 1.00 50.60 ATOM 107 CZ TYR A 15 48.969 -7.915 119.637 1.00 50.60 ATOM 107 CZ TYR A 15	MOTA	79	CE1	TYR A		47.270 4.200
ATOM 81 CE2 TYR A 12 47.906 -2.847 121.310 1.00 44.16 ATOM 82 CZ TYR A 12 48.061 -2.279 122.566 1.00 48.67 ATOM 83 OH TYR A 12 47.030 -1.548 123.116 1.00 48.67 ATOM 84 C TYR A 12 52.367 -6.503 119.816 1.00 50.01 ATOM 85 O TYR A 12 52.367 -6.503 119.816 1.00 50.01 ATOM 86 N GLY A 13 53.484 -6.931 120.396 1.00 48.57 ATOM 87 CA GLY A 13 54.196 -6.931 120.396 1.00 48.57 ATOM 88 C GLY A 13 54.196 -8.727 118.857 1.00 53.32 ATOM 89 O GLY A 13 54.196 -8.727 118.857 1.00 53.32 ATOM 89 O GLY A 13 54.196 -8.727 118.857 1.00 53.32 ATOM 89 O GLY A 13 54.196 -8.727 118.857 1.00 53.32 ATOM 91 CA LYS A 14 52.555 -10.518 118.579 1.00 53.37 ATOM 92 CB LYS A 14 52.022 -11.475 119.653 1.00 58.02 ATOM 93 CG LYS A 14 52.022 -11.475 119.653 1.00 58.02 ATOM 95 CE LYS A 14 53.086 -12.062 120.591 1.00 62.81 ATOM 95 CE LYS A 14 53.086 -12.062 120.591 1.00 62.81 ATOM 96 NZ LYS A 14 53.036 -12.062 120.591 1.00 62.81 ATOM 97 C LYS A 14 55.514 -13.713 118.045 1.00 63.37 ATOM 97 C LYS A 14 55.514 -13.713 118.045 1.00 63.35 ATOM 97 C LYS A 14 55.514 -13.713 118.045 1.00 63.35 ATOM 97 C LYS A 14 55.915 117.559 1.00 52.03 ATOM 98 O LYS A 14 50.911 -11.145 116.942 1.00 51.71 ATOM 98 O LYS A 14 50.911 -11.145 116.942 1.00 51.71 ATOM 98 O LYS A 14 50.911 -11.145 116.942 1.00 51.71 ATOM 98 O LYS A 14 50.911 -11.145 116.942 1.00 51.71 ATOM 101 CB TYR A 15 50.091 -8.563 116.449 1.00 47.99 ATOM 100 CA TYR A 15 50.091 -8.563 116.449 1.00 47.99 ATOM 101 CB TYR A 15 48.895 -7.915 117.251 1.00 50.40 ATOM 103 CD1 TYR A 15 48.895 -7.915 117.251 1.00 50.40 ATOM 104 CE1 TYR A 15 48.895 -7.915 117.251 1.00 55.69 ATOM 105 CD2 TYR A 15 48.895 -7.915 117.251 1.00 55.69 ATOM 107 CZ TYR A 15 49.933 -6.635 115.018 1.00 45.66 ATOM 118 NH1 ARG A 16 57.217 -7.915 117.251 1.00 55.69 ATOM 109 C TYR A 15 49.933 -6.635 115.018 1.00 45.66 ATOM 118 NH1 ARG A 16 57.217 -7.919 117.251 1.00 66.68 ATOM 119 NH2 ARG A 16 57.217 -7.919 117.251 1.00 66.68 ATOM 119 NH2 ARG A 16 57.217 -7.919 117.252 1.00 55.69 ATOM 110 C ARG A 16 57.217 -7.919 117.02 41.00 66.68 ATOM 112 C ARG A 16 57		80	CD2	TYR A	12	40.555
ATOM 82 CZ TYR A 12 48.061 -2.279 122.556 1.00 48.65 ATOM 83 OH TYR A 12 47.030 -1.548 123.116 1.00 48.65 ATOM 84 C TYR A 12 52.367 -6.503 119.816 1.00 48.65 ATOM 85 O TYR A 12 52.367 -6.503 119.816 1.00 45.56 ATOM 85 O TYR A 12 52.367 -6.525 118.596 1.00 45.56 ATOM 87 CA GLY A 13 53.464 -6.931 120.396 1.00 48.72 ATOM 88 C GLY A 13 54.574 -7.458 119.599 1.00 50.56 ATOM 88 C GLY A 13 54.574 -7.458 119.599 1.00 50.56 ATOM 89 O GLY A 13 54.956 -8.727 118.857 1.00 53.32 ATOM 90 N LYS A 14 52.555 -10.518 118.579 1.00 52.64 ATOM 90 N LYS A 14 52.555 -10.518 118.579 1.00 54.56 ATOM 91 CA LYS A 14 52.052 -11.475 119.653 1.00 58.02 ATOM 92 CB LYS A 14 53.086 -12.062 120.591 1.00 62.81 ATOM 95 CE LYS A 14 53.086 -12.062 120.591 1.00 62.81 ATOM 95 CE LYS A 14 53.934 -13.154 119.918 1.00 61.61 ATOM 95 CE LYS A 14 53.734 13.154 119.918 1.00 61.71 ATOM 97 C LYS A 14 55.551 -10.231 177.559 1.00 52.03 ATOM 98 O LYS A 14 55.514 -13.713 118.045 1.00 58.35 ATOM 97 C LYS A 14 50.0911 -11.145 116.942 1.00 51.71 ATOM 98 O LYS A 14 50.0911 -11.145 116.942 1.00 51.71 ATOM 98 O LYS A 14 50.0911 -11.145 116.942 1.00 51.71 ATOM 99 N TYR A 15 50.091 -8.563 116.449 1.00 47.99 ATOM 100 CA TYR A 15 48.456 -8.793 118.386 1.00 51.01 ATOM 101 CB TYR A 15 48.456 -8.793 118.386 1.00 51.01 ATOM 102 CG TYR A 15 48.456 -8.793 118.386 1.00 55.40 ATOM 105 CD2 TYR A 15 48.866 -8.793 118.386 1.00 55.40 ATOM 107 CZ TYR A 15 47.722 -9.053 120.685 1.00 55.42 ATOM 108 OH TYR A 15 47.722 -9.053 120.685 1.00 55.67 ATOM 107 CZ TYR A 15 47.828 -10.931 11.228 121.520 1.00 55.69 ATOM 107 CZ TYR A 15 47.722 -9.053 117.253 1.00 50.40 ATOM 107 CZ TYR A 15 47.722 -9.053 117.373 118.045 1.00 55.69 ATOM 107 CZ TYR A 15 47.561 -10.412 120.485 1.00 55.69 ATOM 107 CZ TYR A 15 47.561 -10.412 120.485 1.00 55.69 ATOM 107 CZ TYR A 15 47.561 -10.412 120.485 1.00 55.69 ATOM 107 CZ TYR A 15 47.561 -10.412 120.485 1.00 55.69 ATOM 107 CZ TYR A 15 47.561 -10.412 120.485 1.00 66.70 ATOM 110 CA ARG A 16 57.517 -7.598 114.491 1.00 46.92 ATOM 110 CZ ARG A 16 57.510 -7.598 114.493 1.00					12	
ATOM 82 CD TYR A 12						48 061 -2.279 122.566 1.00 48.67
ATOM 83 OF TYR A 12	ATOM	82				40.002
ATOM 84 C TYR A 12 52.307 -6.503 119.810 1.00 45.56 ATOM 85 O TYR A 12 52.197 -6.525 118.596 1.00 45.56 ATOM 86 N GLY A 13 53.484 -6.931 120.396 1.00 50.56 ATOM 87 CA GLY A 13 54.574 -7.458 119.599 1.00 50.56 ATOM 88 C GLY A 13 54.916 -8.727 118.857 1.00 53.54 ATOM 89 O GLY A 13 54.911 -9.184 117.982 1.00 52.64 ATOM 90 N LYS A 14 53.045 -9.294 119.207 1.00 53.37 ATOM 91 CA LYS A 14 52.555 -10.518 118.579 1.00 54.56 ATOM 92 CB LYS A 14 52.022 -11.475 119.653 1.00 58.02 ATOM 92 CE LYS A 14 53.086 -12.062 120.591 1.00 61.61 ATOM 94 CD LYS A 14 53.086 -12.062 120.591 1.00 61.61 ATOM 95 CE LYS A 14 55.514 -13.713 118.045 1.00 61.77 ATOM 96 NZ LYS A 14 55.514 -13.713 118.045 1.00 58.02 ATOM 97 C LYS A 14 55.514 -13.713 118.045 1.00 58.02 ATOM 98 O LYS A 14 551.455 -10.231 117.559 1.00 52.03 ATOM 99 N TYR A 15 50.911 -11.145 116.942 1.00 51.72 ATOM 90 C TYR A 15 50.911 -11.145 116.942 1.00 51.72 ATOM 100 CA TYR A 15 50.91 -8.563 116.449 1.00 47.99 ATOM 101 CB TYR A 15 48.959 -7.915 117.253 1.00 50.30 ATOM 103 CD1 TYR A 15 48.959 -7.915 117.253 1.00 53.01 ATOM 104 CE1 TYR A 15 47.722 -9.053 120.685 1.00 51.72 ATOM 105 CC2 TYR A 15 47.722 -9.053 120.685 1.00 51.72 ATOM 106 CE2 TYR A 15 47.722 -9.053 120.685 1.00 51.72 ATOM 107 CZ TYR A 15 47.561 -10.412 120.485 1.00 54.67 ATOM 107 CZ TYR A 15 47.561 -10.412 120.485 1.00 54.67 ATOM 107 CZ TYR A 15 47.561 -10.412 120.485 1.00 54.67 ATOM 110 O TYR A 15 50.592 -7.617 115.353 1.00 46.20 ATOM 111 N ARG A 16 51.758 -7.924 114.791 1.00 45.66 ATOM 112 CA ARG A 16 54.677 -7.698 114.636 1.00 66.68 ATOM 113 CB ARG A 16 54.677 -7.698 114.636 1.00 66.63 ATOM 120 CA ARG A 16 54.677 -7.698 114.834 1.00 66.63 ATOM 120 CA ARG A 16 54.677 -7.698 114.834 1.00 66.63 ATOM 121 O ARG A 16 55.575 -7.294 112.259 1.00 44.20 ATOM 122 N ARG A 16 57.520 -7.519 114.834 1.00 66.63 ATOM 122 N ARG A 16 57.520 -7.519 114.834 1.00 65.68 ATOM 122 N ARG A 16 57.520 -7.519 114.834 1.00 66.63 ATOM 122 N ARG A 16 57.520 -7.519 114.834 1.00 66.63 ATOM 122 N ARG A 16 57.520 -7.519 114.834 1.00 66.63 ATOM 122 N A	MOTA	83	OH	TYR A		2,100 010 100 01
ATOM 86 N GLY A 13		84	С	TYR A	12	
ATOM 86 N GLY A 13					12	
ATOM 86 N GLY A 13						
ATOM 88 C GLY A 13 ATOM 89 O GLY A 13 ATOM 90 N LYS A 14 ATOM 90 N LYS A 14 ATOM 91 CA LYS A 14 ATOM 92 CB LYS A 14 ATOM 92 CB LYS A 14 ATOM 94 CD LYS A 14 ATOM 95 CE LYS A 14 ATOM 96 NZ LYS A 14 ATOM 97 C LYS A 14 ATOM 97 C LYS A 14 ATOM 98 O LYS A 14 ATOM 98 O LYS A 14 ATOM 98 O LYS A 14 ATOM 99 N TYR A 15 ATOM 97 C LYS A 14 ATOM 98 O LYS A 14 ATOM 98 O LYS A 14 ATOM 98 O LYS A 14 ATOM 99 N TYR A 15 ATOM 99 N TYR A 15 ATOM 100 CA TYR A 15 ATOM 101 CB TYR A 15 ATOM 102 CG TYR A 15 ATOM 103 CD1 TYR A 15 ATOM 104 CE1 TYR A 15 ATOM 105 CD2 TYR A 15 ATOM 106 CE2 TYR A 15 ATOM 107 CZ TYR A 15 ATOM 108 OH TYR A 15 ATOM 109 C TYR A 15 ATOM 100 CA TYR A 15 ATOM 101 CB TYR A 15 ATOM 102 CG TYR A 15 ATOM 103 CD1 TYR A 15 ATOM 104 CE1 TYR A 15 ATOM 105 CD2 TYR A 15 ATOM 106 CE2 TYR A 15 ATOM 107 CZ TYR A 15 ATOM 108 OH TYR A 15 ATOM 109 C TYR A 15 ATOM 107 CZ TYR A 15 ATOM 108 OH TYR A 15 ATOM 109 C TYR A 15 ATOM 100 CA TYR A 15 ATOM 101 CB TYR A 15 ATOM 103 CD1 TYR A 15 ATOM 104 CE1 TYR A 15 ATOM 105 CD2 TYR A 15 ATOM 106 CE2 TYR A 15 ATOM 107 CZ TYR A 15 ATOM 108 OH TYR A 15 ATOM 109 C TYR A 15 ATOM 110 C TYR A 15 ATOM 111 N ARG A 16 S2.347 -7.109 113.727 1.00 46.20 ATOM 112 CA ARG A 16 S2.347 -7.109 113.727 1.00 46.20 ATOM 113 CB ARG A 16 S2.347 -7.109 113.727 1.00 46.20 ATOM 114 CG ARG A 16 S2.347 -7.109 113.727 1.00 46.20 ATOM 115 CD ARG A 16 S2.347 -7.109 113.727 1.00 46.20 ATOM 116 NB ARG A 16 S2.347 -7.109 113.727 1.00 46.20 ATOM 117 CZ ARG A 16 S2.347 -7.109 113.727 1.00 46.20 ATOM 118 NH1 ARG A 16 S2.347 -7.109 113.727 1.00 46.20 ATOM 120 C ARG A 16 S2.347 -7.109 113.727 1.00 46.20 ATOM 121 C ARG A 16 S2.347 -7.109 113.727 1.00 46.20 ATOM 122 C TYR A 17 ATOM 123 CA TYR A 17 ATOM 124 CB TYR A 17 AT	MOTA	86				
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ATOM 95 CE LYS À 14 ATOM 96 NZ LYS À 14 ATOM 97 C LYS À 14 ATOM 97 C LYS À 14 ATOM 98 O LYS À 14 ATOM 99 N TYR À 15 ATOM 100 CÀ TYR À 15 ATOM 100 CÀ TYR À 15 ATOM 101 CB TYR À 15 ATOM 102 CG TYR À 15 ATOM 103 CD1 TYR À 15 ATOM 104 CE1 TYR À 15 ATOM 105 CD2 TYR À 15 ATOM 105 CD2 TYR À 15 ATOM 106 CE2 TYR À 15 ATOM 107 CZ TYR À 15 ATOM 108 OH TYR À 15 ATOM 109 C TYR À 15 ATOM 100 CA TYR À 15 ATOM 107 CZ TYR À 15 ATOM 108 OH TYR À 15 ATOM 109 C TYR À 15 ATOM 109 C TYR À 15 ATOM 100 CA TYR À 15 ATOM 110 O TYR À 15 ATOM 110 O TYR À 15 ATOM 110 CA TYR À 15 ATOM 111 NARG À 16 CA TYR À 15 ATOM 112 CA ARG À 16 CA TYR À 15 ATOM 113 CB ARG À 16 CA TYR À 15 ATOM 114 CG ARG À 16 CA TYR À 15 ATOM 115 CD ARG À 16 CA TYR À 15 CD ARG À 16 CA TYR À 17 CA TYR À 17 CA TOM 120 CA TYR À 17 CA TYR À 17 CA TOM 122 CA TYR À 17 CA TYR À 17 CA TOM 122 CA TYR À 17 CA TYR À 17 CA TOM 122 CA TYR À 17 CA TYR À 17 CA TOM 122 CA TYR À 17 CA TYR À 17 CA TOM 122 CA TYR À 17 CA TYR À 17 CA TOM 122 CA TYR À 17 CA TYR À 17 CA TOM 122 CA TYR À 17 CA TYR À 17 CA TOM 122 CA TYR À 17 CA TYR À 17 CA TOM 122 CA TYR À 17 CA TYR À 17 CA TOM 124 CB TYR À 17 CA TOM 125 CA TYR À 17 CA TOM 126 CA TYR À 17 CA TOM 127 CA TYR À 17 CA TOM 128 CA TYR À 17 CA TOM 129 CA T						
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ATOM 96 NZ LYS A 14 55.514 -13.713 118.043 1.00 52.03 ATOM 97 C LYS A 14 55.514 -13.713 118.043 1.00 52.03 ATOM 98 O LYS A 14 50.911 -11.145 116.942 1.00 51.71 ATOM 99 N TYR A 15 50.911 -11.145 116.942 1.00 47.99 ATOM 100 CA TYR A 15 50.901 -8.563 116.449 1.00 47.99 ATOM 101 CB TYR A 15 48.959 -7.915 117.253 1.00 50.40 ATOM 102 CG TYR A 15 48.959 -7.915 117.253 1.00 53.01 ATOM 103 CD1 TYR A 15 48.666 -8.255 119.637 1.00 52.10 ATOM 104 CE1 TYR A 15 48.283 -10.166 118.208 1.00 51.72 ATOM 105 CD2 TYR A 15 47.722 -9.053 120.685 1.00 51.72 ATOM 106 CE2 TYR A 15 47.838 -10.976 119.250 1.00 55.69 ATOM 107 CZ TYR A 15 47.561 -10.412 120.485 1.00 54.18 ATOM 109 C TYR A 15 50.592 -7.617 115.353 1.00 46.20 ATOM 110 O TYR A 15 59.933 -6.635 115.018 1.00 43.72 ATOM 111 N ARG A 16 51.758 -7.924 114.791 1.00 46.29 ATOM 112 CA ARG A 16 53.779 -7.545 113.441 1.00 50.56 ATOM 114 CG ARG A 16 53.779 -7.545 113.441 1.00 50.56 ATOM 115 CD ARG A 16 53.779 -7.545 113.441 1.00 50.56 ATOM 116 NE ARG A 16 54.992 -6.388 115.315 1.00 66.70 ATOM 117 CZ ARG A 16 54.992 -6.388 115.315 1.00 46.20 ATOM 118 NH1 ARG A 16 56.021 -6.602 116.328 1.00 66.70 ATOM 118 NH1 ARG A 16 56.021 -6.602 116.328 1.00 66.70 ATOM 120 C ARG A 16 56.021 -6.602 116.328 1.00 66.70 ATOM 120 C ARG A 16 56.021 -6.602 116.328 1.00 66.70 ATOM 120 C ARG A 16 51.573 -7.298 112.429 1.00 43.41 ATOM 120 C ARG A 16 50.871 -8.293 112.254 1.00 39.23 ATOM 122 C ARG A 16 51.573 -7.298 112.429 1.00 43.41 ATOM 122 C ARG A 16 50.871 -8.293 112.254 1.00 39.23 ATOM 122 C TYR A 17 50.913 -5.072 109.565 1.00 38.71 ATOM 126 CD1 TYR A 17 50.913 -5.072 109.565 1.00 38.871 ATOM 126 CD1 TYR A 17 50.913 -5.072 109.565 1.00 38.871 ATOM 126 CD1 TYR A 17 49.598 -3.982 111.443 1.00 27.25 ATOM 127 CE1 TYR A 17 49.598 -3.982 111.443 1.00 27.25 ATOM 128 CD2 TYR A 17 49.598 -3.982 111.443 1.00 27.25 ATOM 129 CE2 TYR A 17 49.598 -3.982 111.493 1.00 27.25 ATOM 129 CE2 TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 129 CE2 TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 129 CE2 TYR A 17 47.626 -2.659 111.00	ATOM	95	CE	LYS A		34.14.
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ATOM 98 0 LYS A 14 50.911 -11.145 116.942 1.00 46.92 ATOM 99 N TYR A 15 50.991 -8.563 116.449 1.00 47.99 ATOM 100 CA TYR A 15 50.091 -8.563 116.449 1.00 47.99 ATOM 101 CB TYR A 15 48.959 -7.915 117.253 1.00 50.40 ATOM 102 CG TYR A 15 48.456 -8.793 118.386 1.00 53.01 ATOM 103 CD1 TYR A 15 48.166 -8.255 119.637 1.00 52.10 ATOM 105 CD2 TYR A 15 47.722 -9.053 120.685 1.00 51.72 ATOM 105 CD2 TYR A 15 48.283 -10.166 118.208 1.00 54.67 ATOM 106 CEZ TYR A 15 47.561 -10.412 120.485 1.00 54.67 ATOM 107 CZ TYR A 15 47.561 -10.412 120.485 1.00 54.18 ATOM 108 OH TYR A 15 47.561 -10.412 120.485 1.00 54.18 ATOM 109 C TYR A 15 49.933 -6.635 115.018 1.00 46.20 ATOM 111 N ARG A 16 51.758 -7.924 114.791 1.00 46.29 ATOM 112 CA ARG A 16 51.758 -7.924 114.791 1.00 46.29 ATOM 113 CB ARG A 16 53.779 -7.545 113.441 1.00 56.90 ATOM 115 CD ARG A 16 54.677 -7.698 114.636 1.00 56.90 ATOM 115 CD ARG A 16 57.211 -7.141 116.070 1.00 66.68 ATOM 117 CZ ARG A 16 57.211 -7.141 116.070 1.00 66.68 ATOM 119 NH2 ARG A 16 57.520 -7.519 114.834 1.00 65.68 ATOM 120 C ARG A 16 57.520 -7.519 114.834 1.00 66.70 ATOM 121 O ARG A 16 57.520 -7.519 114.834 1.00 66.70 ATOM 121 O ARG A 16 57.520 -7.519 114.834 1.00 66.70 ATOM 122 N TYR A 17 51.067 -6.453 110.215 1.00 38.71 ATOM 122 N TYR A 17 51.715 -6.346 111.514 1.00 39.23 ATOM 122 N TYR A 17 51.715 -6.346 111.514 1.00 39.23 ATOM 122 N TYR A 17 51.715 -6.346 111.514 1.00 39.23 ATOM 122 CG TYR A 17 51.067 -6.453 110.215 1.00 38.71 ATOM 124 CB TYR A 17 51.715 -6.346 111.514 1.00 27.25 ATOM 125 CG TYR A 17 49.598 -3.982 111.443 1.00 27.35 ATOM 126 CD1 TYR A 17 49.598 -3.982 111.443 1.00 27.35 ATOM 126 CD1 TYR A 17 49.598 -3.982 111.443 1.00 27.25 ATOM 127 CE1 TYR A 17 49.598 -3.982 111.443 1.00 27.25 ATOM 126 CD1 TYR A 17 49.598 -3.982 111.445 1.00 22.04 ATOM 126 CD1 TYR A 17 49.598 -3.982 111.445 1.00 22.04 ATOM 129 CE2 TYR A 17 47.626 -2.659 111.099 1.00 27.28 ATOM 129 CE2 TYR A 17 47.626 -2.659 111.099 1.00 27.28 ATOM 120 CT TYR A 17 47.626 -2.659 111.099 1.00 27.28 ATOM 120 CT TYR A 17 47.626 -2.659 111.099 3		-				51.455 -10.231 117.559 1.00 52.03
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ATOM 100 CA TYR A 15	ATOM	99	N	TYR A	. 15	22.23
ATOM 101 CB TYR A 15		100	CA	TYR A	15	30.032
ATOM 102 CG TYR A 15						40.222
ATOM 103 CD1 TYR A 15					_	48.456 -8.793 118.386 1.00 53.01
ATOM 104 CE1 TYR A 15	ATOM				_	
ATOM 104 CE1 TYR A 15	ATOM	103	CD1	. TYR A		40.100 0.233 223 233
ATOM 105 CD2 TYR A 15		104	CE1	TYR A	. 15	47.74
ATOM 106 CE2 TYR A 15					. 15	
ATOM 107 CZ TYR A 15 47.561 -10.412 120.485 1.00 54.18 ATOM 108 OH TYR A 15 47.130 -11.208 121.520 1.00 55.42 ATOM 109 C TYR A 15 50.592 -7.617 115.353 1.00 46.20 ATOM 111 N ARG A 16 51.758 -7.924 114.791 1.00 45.66 ATOM 112 CA ARG A 16 52.347 -7.109 113.727 1.00 45.66 ATOM 113 CB ARG A 16 53.779 -7.545 113.441 1.00 50.56 ATOM 115 CD ARG A 16 54.992 -6.388 115.315 1.00 60.72 ATOM 116 NE ARG A 16 56.021 -6.602 116.328 1.00 66.70 ATOM 117 CZ ARG A 16 57.211 -7.141 116.070 1.00 66.68 ATOM 119 NH2 ARG A 16 57.211 -7.141 116.070 1.00 66.68 ATOM 119 NH2 ARG A 16 57.520 -7.519 114.834 1.00 65.68 ATOM 120 C ARG A 16 57.520 -7.519 114.834 1.00 65.68 ATOM 121 O ARG A 16 58.093 -7.314 117.046 1.00 66.33 ATOM 122 N TYR A 17 51.067 -6.453 110.215 1.00 39.23 ATOM 123 CA TYR A 17 51.067 -6.453 110.215 1.00 39.23 ATOM 124 CB TYR A 17 50.913 -5.072 109.565 1.00 33.871 ATOM 125 CG TYR A 17 49.598 -3.982 111.443 1.00 27.25 ATOM 128 CD2 TYR A 17 48.540 -3.184 111.909 1.00 27.16 ATOM 127 CE1 TYR A 17 48.540 -3.184 111.909 1.00 27.28 ATOM 130 CZ TYR A 17 48.540 -3.184 111.909 1.00 27.28 ATOM 130 CZ TYR A 17 48.540 -3.184 111.909 1.00 27.28 ATOM 130 CZ TYR A 17 48.540 -3.184 111.909 1.00 27.28 ATOM 131 OH TYR A 17 48.540 -3.184 111.909 1.00 27.28 ATOM 131 OH TYR A 17 48.540 -3.184 111.909 1.00 27.28 ATOM 131 OH TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -7.350 109.368 1.00 41.52					_	47 838 -10,976 119,250 1.00 55.69
ATOM 108 OH TYR A 15	ATOM					
ATOM 108 OH TYR A 15	MOTA	107	CZ		_	37.33
ATOM 109 C TYR A 15 49.933 -6.635 115.018 1.00 43.72 47.00 111 N ARG A 16 51.758 -7.924 114.791 1.00 46.29 112 CA ARG A 16 52.347 -7.109 113.727 1.00 45.66 113 CB ARG A 16 53.779 -7.545 113.441 1.00 50.56 115 CD ARG A 16 54.677 -7.698 114.636 1.00 56.90 115 CD ARG A 16 54.677 -7.698 114.636 1.00 56.90 115 CD ARG A 16 54.992 -6.388 115.315 1.00 66.72 115 CD ARG A 16 56.021 -6.602 116.328 1.00 66.70 116 NE ARG A 16 57.211 -7.141 116.070 1.00 66.68 117 CZ ARG A 16 57.211 -7.141 116.070 1.00 66.68 119 NH2 ARG A 16 57.520 -7.519 114.834 1.00 65.68 119 NH2 ARG A 16 58.093 -7.314 117.046 1.00 66.33 119 NH2 ARG A 16 58.093 -7.314 117.046 1.00 66.33 119 NH2 ARG A 16 50.871 -8.293 112.254 1.00 44.20 110 ARG A 16 50.871 -8.293 112.254 1.00 39.23 110 120 C ARG A 16 50.871 -8.293 112.254 1.00 39.23 110 120 C ARG A 17 50.913 -5.072 109.565 1.00 38.71 110 123 CA TYR A 17 50.913 -5.072 109.565 1.00 33.83 110 126 CD1 TYR A 17 49.598 -3.982 111.443 1.00 27.35 110 126 CD1 TYR A 17 48.540 -3.184 111.909 1.00 27.16 110 128 CD2 TYR A 17 48.540 -3.184 111.909 1.00 27.25 110 128 CD2 TYR A 17 48.540 -3.184 111.909 1.00 27.25 110 128 CD2 TYR A 17 48.540 -3.184 111.909 1.00 27.25 110 128 CD2 TYR A 17 48.540 -3.184 111.909 1.00 27.25 110 128 CD2 TYR A 17 48.540 -3.184 111.909 1.00 27.25 110 129 CE2 TYR A 17 48.540 -3.184 111.909 1.00 27.25 110 129 CE2 TYR A 17 48.540 -3.184 111.909 1.00 27.25 110 129 CE2 TYR A 17 48.540 -3.184 111.909 1.00 27.25 110 130 CZ TYR A 17 48.540 -3.184 111.909 1.00 27.25 110 130 CZ TYR A 17 47.626 -2.659 111.009 1.00 27.25 110 131 0H TYR A 17 47.626 -2.659 111.009 1.00 27.25 110 131 0H TYR A 17 46.602 -1.842 111.450 1.00 22.04	MOTA	108	OH	TYR A	15	1,120
ATOM 110 0 TYR A 15 49.933 -6.635 115.018 1.00 43.72 ATOM 111 N ARG A 16 51.758 -7.924 114.791 1.00 46.29 ATOM 112 CA ARG A 16 52.347 -7.109 113.727 1.00 45.66 ATOM 113 CB ARG A 16 53.779 -7.545 113.441 1.00 50.56 ATOM 114 CG ARG A 16 54.677 -7.698 114.636 1.00 56.90 ATOM 115 CD ARG A 16 54.677 -7.698 114.636 1.00 60.72 ATOM 116 NE ARG A 16 54.992 -6.388 115.315 1.00 60.72 ATOM 117 CZ ARG A 16 56.021 -6.602 116.328 1.00 66.70 ATOM 118 NH1 ARG A 16 57.211 -7.141 116.070 1.00 66.68 ATOM 119 NH2 ARG A 16 57.520 -7.519 114.834 1.00 65.68 ATOM 120 C ARG A 16 58.093 -7.314 117.046 1.00 66.33 ATOM 120 C ARG A 16 51.573 -7.298 112.429 1.00 44.20 ATOM 121 O ARG A 16 50.871 -8.293 112.254 1.00 43.41 ATOM 122 N TYR A 17 51.067 -6.453 110.215 1.00 38.71 ATOM 123 CA TYR A 17 51.067 -6.453 110.215 1.00 38.71 ATOM 125 CG TYR A 17 49.598 -3.982 111.443 1.00 27.35 ATOM 126 CD1 TYR A 17 49.598 -3.982 111.443 1.00 27.25 ATOM 127 CE1 TYR A 17 48.807 -3.720 109.656 1.00 25.78 ATOM 129 CE2 TYR A 17 48.807 -3.720 109.0656 1.00 25.78 ATOM 129 CE2 TYR A 17 47.626 -2.659 111.009 1.00 25.78 ATOM 130 CZ TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 51.972 -7.350 109.368 1.00 41.52			C	TYR A	15	30.325
ATOM 111 N ARG A 16 51.758 -7.924 114.791 1.00 46.29 ATOM 112 CA ARG A 16 52.347 -7.109 113.727 1.00 45.66 ATOM 113 CB ARG A 16 53.779 -7.545 113.441 1.00 50.56 ATOM 114 CG ARG A 16 54.677 -7.698 114.636 1.00 56.90 ATOM 115 CD ARG A 16 54.992 -6.388 115.315 1.00 60.72 ATOM 116 NE ARG A 16 56.021 -6.602 116.328 1.00 66.70 ATOM 117 CZ ARG A 16 57.211 -7.141 116.070 1.00 66.68 ATOM 118 NH1 ARG A 16 57.520 -7.519 114.834 1.00 65.68 ATOM 119 NH2 ARG A 16 57.520 -7.519 114.834 1.00 65.68 ATOM 120 C ARG A 16 51.573 -7.298 112.429 1.00 44.20 ATOM 121 O ARG A 16 50.871 -8.293 112.254 1.00 43.41 ATOM 122 N TYR A 17 51.067 -6.346 111.514 1.00 39.23 ATOM 123 CA TYR A 17 51.067 -6.453 110.215 1.00 38.71 ATOM 124 CB TYR A 17 50.913 -5.072 109.565 1.00 33.83 ATOM 125 CG TYR A 17 49.598 -3.982 111.443 1.00 27.35 ATOM 126 CD1 TYR A 17 49.598 -3.982 111.443 1.00 27.25 ATOM 127 CE1 TYR A 17 48.807 -3.720 109.204 1.00 27.26 ATOM 129 CE2 TYR A 17 47.752 -2.925 109.656 1.00 25.78 ATOM 130 CZ TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04						49.933 -6.635 115.018 1.00 43.72
ATOM 111 N ARG A 16 ATOM 112 CA ARG A 16 ATOM 113 CB ARG A 16 ATOM 114 CG ARG A 16 ATOM 115 CD ARG A 16 ATOM 115 CD ARG A 16 ATOM 116 NE ARG A 16 ATOM 117 CZ ARG A 16 ATOM 117 CZ ARG A 16 ATOM 118 NH1 ARG A 16 ATOM 119 NH2 ARG A 16 ATOM 120 C ARG A 16 ATOM 121 O ARG A 16 ATOM 121 C ARG A 16 ATOM 122 N TYR A 17 ATOM 123 CA TYR A 17 ATOM 124 CB TYR A 17 ATOM 125 CD TYR A 17 ATOM 126 CD1 TYR A 17 ATOM 127 CE1 TYR A 17 ATOM 128 CD2 TYR A 17 ATOM 129 CE2 TYR A 17 ATOM 120 C TYR A 17 ATOM 121 CC TYR A 17 ATOM 122 N TYR A 17 ATOM 123 CA TYR A 17 ATOM 124 CB TYR A 17 ATOM 125 CG TYR A 17 ATOM 126 CD1 TYR A 17 ATOM 127 CE1 TYR A 17 ATOM 128 CD2 TYR A 17 ATOM 129 CE2 TYR A 17 ATOM 129 CE2 TYR A 17 ATOM 129 CE2 TYR A 17 ATOM 130 CZ TYR A 17 ATOM 131 OH TYR A 17 ATOM 132 OH TYR A 17 ATOM 133 OH TYR A 17 ATOM 134 OH TYR A 17 ATOM 135 OH TYR A 17 ATOM 136 OH TYR A 17 ATOM 137 OH TYR A 17 ATOM 138 OH TYR A 17 ATOM 141.00 OH TYR A 17 A						
ATOM 112 CA ARG A 16 ATOM 113 CB ARG A 16 ATOM 114 CG ARG A 16 ATOM 115 CD ARG A 16 ATOM 115 CD ARG A 16 ATOM 116 NE ARG A 16 ATOM 117 CZ ARG A 16 ATOM 118 NH1 ARG A 16 ATOM 119 NH2 ARG A 16 ATOM 120 C ARG A 16 ATOM 121 O ARG A 16 ATOM 121 O ARG A 16 ATOM 122 N TYR A 17 ATOM 123 CA TYR A 17 ATOM 124 CB TYR A 17 ATOM 125 CG TYR A 17 ATOM 126 CD1 TYR A 17 ATOM 127 CE1 TYR A 17 ATOM 128 CD2 TYR A 17 ATOM 129 CE2 TYR A 17 ATOM 131 OH TYR A 17 ATOM 131 OH TYR A 17 ATOM 132 CA TYR A 17 ATOM 128 CD2 TYR A 17 ATOM 129 CE2 TYR A 17 ATOM 129 CE2 TYR A 17 ATOM 130 CZ TYR A 17 ATOM 131 OH TYR A 17 ATOM 131 OH TYR A 17 ATOM 131 OH TYR A 17 ATOM 132 CA TYR A 17 ATOM 133 OH TYR A 17 ATOM 134 CD2 CYR A 17 ATOM 135 CG TYR A 17 ATOM 136 CZ TYR A 17 ATOM 137 CE1 TYR A 17 ATOM 138 CD2 TYR A 17 ATOM 139 CE2 TYR A 17 ATOM 130 CZ TYR A 17 ATOM 131 OH TYR A 17 ATOM 132 OH TYR A 17 ATOM 133 OH TYR A 17 ATOM 134 OH TYR A 17 ATOM 135 OH TYR A 17 ATOM 14.666.21 ATOM 156 OH TYR A 17 ATOM 157 OH TYR A 17 ATOM 157 OH TYR A 1	MOTA			• • •		31.730 AF 66
ATOM 113 CB ARG A 16 53.779 -7.543 113.41 1.00 56.90 ATOM 114 CG ARG A 16 54.677 -7.698 114.636 1.00 56.90 ATOM 115 CD ARG A 16 54.992 -6.388 115.315 1.00 60.72 ATOM 116 NE ARG A 16 56.021 -6.602 116.328 1.00 66.70 ATOM 117 CZ ARG A 16 57.211 -7.141 116.070 1.00 66.68 ATOM 118 NH1 ARG A 16 57.520 -7.519 114.834 1.00 65.68 ATOM 120 C ARG A 16 58.093 -7.314 117.046 1.00 66.33 ATOM 120 C ARG A 16 51.573 -7.298 112.429 1.00 44.20 ATOM 121 O ARG A 16 50.871 -8.293 112.254 1.00 43.41 ATOM 122 N TYR A 17 51.715 -6.346 111.514 1.00 39.23 ATOM 123 CA TYR A 17 51.067 -6.453 110.215 1.00 38.71 ATOM 124 CB TYR A 17 50.913 -5.072 109.565 1.00 33.83 ATOM 125 CG TYR A 17 49.744 -4.255 110.084 1.00 27.35 ATOM 126 CD1 TYR A 17 49.598 -3.982 111.443 1.00 27.25 ATOM 127 CE1 TYR A 17 48.807 -3.720 109.204 1.00 25.78 ATOM 129 CE2 TYR A 17 47.752 -2.925 109.656 1.00 26.34 ATOM 131 OH TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04	ATOM	112	CA	ARG A	16	55.51
ATOM 114 CG ARG A 16 54.677 -7.698 114.636 1.00 50.70 ATOM 115 CD ARG A 16 54.992 -6.388 115.315 1.00 60.72 ATOM 116 NE ARG A 16 56.021 -6.602 116.328 1.00 66.70 ATOM 117 CZ ARG A 16 57.211 -7.141 116.070 1.00 66.68 ATOM 118 NH1 ARG A 16 57.520 -7.519 114.834 1.00 65.68 ATOM 119 NH2 ARG A 16 58.093 -7.314 117.046 1.00 66.33 ATOM 120 C ARG A 16 51.573 -7.298 112.429 1.00 44.20 ATOM 121 O ARG A 16 50.871 -8.293 112.254 1.00 43.41 ATOM 122 N TYR A 17 51.067 -6.346 111.514 1.00 39.23 ATOM 123 CA TYR A 17 51.067 -6.453 110.215 1.00 38.71 ATOM 124 CB TYR A 17 50.913 -5.072 109.565 1.00 33.83 ATOM 125 CG TYR A 17 49.744 -4.255 110.084 1.00 27.35 ATOM 126 CD1 TYR A 17 49.598 -3.982 111.443 1.00 27.25 ATOM 127 CE1 TYR A 17 48.540 -3.184 111.909 1.00 27.16 ATOM 129 CE2 TYR A 17 48.807 -3.720 109.204 1.00 25.78 ATOM 129 CE2 TYR A 17 47.752 -2.925 109.656 1.00 26.34 ATOM 131 OH TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -7.350 109.368 1.00 41.52				ARG A	16	53.779 -7.545 113.441 1.00 50.50
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ATOM 124 CB TYR A 17 50.913 -5.072 109.565 1.00 33.83 ATOM 125 CG TYR A 17 49.744 -4.255 110.084 1.00 27.35 ATOM 126 CD1 TYR A 17 49.598 -3.982 111.443 1.00 27.25 ATOM 127 CE1 TYR A 17 48.540 -3.184 111.909 1.00 27.16 ATOM 128 CD2 TYR A 17 48.807 -3.720 109.204 1.00 25.78 ATOM 129 CE2 TYR A 17 47.752 -2.925 109.656 1.00 26.34 ATOM 130 CZ TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -7.350 109.368 1.00 41.52						
ATOM 124 CB TYR A 17 ATOM 125 CG TYR A 17 ATOM 126 CD1 TYR A 17 ATOM 127 CE1 TYR A 17 ATOM 128 CD2 TYR A 17 ATOM 129 CE2 TYR A 17 ATOM 130 CZ TYR A 17 ATOM 131 OH TYR A 17 ATOM 132 CD2 TYR A 17 ATOM 133 CZ TYR A 17 ATOM 134 CD2 TYR A 17 ATOM 135 CZ TYR A 17 ATOM 136 CZ TYR A 17 ATOM 137 CE1 TYR A 17 ATOM 138 CZ TYR A 17 ATOM 139 CZ TYR A 17 ATOM 130 CZ TYR A 17 ATOM 131 OH TYR A 17 ATOM 132 CZ TYR A 17 ATOM 131 OH TYR A 17 ATOM 132 OH TYR A 17 ATOM 132 OH TYR A 17 ATOM 133 OH TYR A 17 ATOM 134 OH TYR A 17 ATOM 135 OH TYR A 17 ATOM 136 OH TYR A 17 ATOM 137 OH TYR A 17 ATOM 138 OH TYR A 17 AT	MOTA	123				22.00
ATOM 125 CG TYR A 17 49.744 -4.255 110.084 1.00 27.35 ATOM 126 CD1 TYR A 17 49.598 -3.982 111.443 1.00 27.25 ATOM 127 CE1 TYR A 17 48.540 -3.184 111.909 1.00 27.16 ATOM 128 CD2 TYR A 17 48.807 -3.720 109.204 1.00 25.78 ATOM 129 CE2 TYR A 17 47.752 -2.925 109.656 1.00 26.34 ATOM 130 CZ TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -7.350 109.368 1.00 41.52		124	CB	TYR	A 17	30,723
ATOM 126 CD1 TYR A 17 49.598 -3.982 111.443 1.00 27.25 ATOM 127 CE1 TYR A 17 48.540 -3.184 111.909 1.00 27.16 ATOM 128 CD2 TYR A 17 48.807 -3.720 109.204 1.00 25.78 ATOM 129 CE2 TYR A 17 47.752 -2.925 109.656 1.00 26.34 ATOM 130 CZ TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -7.350 109.368 1.00 41.52						3211
ATOM 127 CE1 TYR A 17 48.540 -3.184 111.909 1.00 27.16 ATOM 128 CD2 TYR A 17 48.807 -3.720 109.204 1.00 25.78 ATOM 129 CE2 TYR A 17 47.752 -2.925 109.656 1.00 26.34 ATOM 130 CZ TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 46.602 -7.350 109.368 1.00 41.52						49.598 -3.982 111.443 1.00 27.25
ATOM 127 CE1 TYR A 17 ATOM 128 CD2 TYR A 17 ATOM 129 CE2 TYR A 17 ATOM 130 CZ TYR A 17 ATOM 131 OH TYR A 17 ATOM 132 OH TYR A 17 ATOM 133 OH TYR A 17 ATOM 134 OH TYR A 17 ATOM 135 OH TYR A 17 ATOM 136 OH TYR A 17 ATOM 137 OH TYR A 17 ATOM 138 OH TYR A 17 ATOM 139 OH TYR A 17 ATOM 131 OH TYR A 17 ATOM 131 OH TYR A 17 ATOM 132 OH TYR A 17 ATOM 132 OH TYR A 17 ATOM 133 OH TYR A 17 ATOM 134 OH TYR A 17 ATOM 135 OH TYR A 17 ATOM 136 OH TYR A 17 ATOM 137 OH TYR A 17 ATOM 138 OH TYR A 17 ATOM 139 OH TYR A 17 ATOM 130 OH TYR A 17 ATOM 131 OH TYR A 17 ATOM 131 OH TYR A 17 ATOM 132 OH TYR A 17 ATOM 131 OH TYR A 17 ATOM 132 OH TYR A 17 ATOM 133 OH TYR A 17 ATOM 134 OH TYR A 17 ATOM 135 OH TYR A 17 ATOM 136 OH TYR A 17 ATOM 137 OH TYR A 17 ATOM 138 OH TYR A 17	ATOM					1 00 07 16
ATOM 128 CD2 TYR A 17 48.807 -3.720 109.204 1.00 25.34 ATOM 129 CE2 TYR A 17 47.752 -2.925 109.656 1.00 26.34 ATOM 130 CZ TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 51.972 -7.350 109.368 1.00 41.52		127	CE	1 TYR .		40.010
ATOM 129 CE2 TYR A 17 47.752 -2.925 109.656 1.00 26.34 ATOM 130 CZ TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 51.972 -7.350 109.368 1.00 41.52				2 TYR	A 17	30.00
ATOM 130 CZ TYR A 17 47.626 -2.659 111.009 1.00 27.28 ATOM 131 OH TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 51.972 -7.350 109.368 1.00 41.52						7,1,1
ATOM 130 C2 TYR A 17 46.602 -1.842 111.450 1.00 22.04 ATOM 131 OH TYR A 17 51.972 -7.350 109.368 1.00 41.52						47 626 -2 659 111 009 1.00 27.48
ATCM 131 OH TYR A 17 51.972 -7.350 109.368 1.00 41.52	atom					
17 51.9/2 -/.300 103.300 1.00 41.00		131	OH		• -	3000 41 5
atom even in the state of the s				TYR	A 17	51.972 -7.350 109.368 1.00 41.5
	AICH		-	'		

MOTA MOTA	133 O TYR A 17 134 N PRO A 18	53.150 -7.525 109.683 1.00 35.63 51.440 -7.925 108.278 1.00 46.68 50.076 -7.765 107.755 1.00 47.16
ATOM	135 CD PRO A 18	30.070
ATOM	136 CA 'PRO A 18	32.203
ATOM	137 CB PRO A 18	31.213
MOTA	138 CG PRO A 18	30.343
ATOM	139 C PRO A 18	55,550 0.500 = - 1 00 40 33
MOTA	140 O PRO A 18	55.780 7.202 200 53 33
ATOM	141 N LYS A 19	34,432
ATOM	142 CA LYS A 19	33.800 3.042 20.00 1 00 62 34
MOTA	143 CB LYS A 19	50.225 10.212 200 27 04
ATOM	144 CG LYS A 19	33.003 20.323 20.32
ATOM	145 CD LYS A 19	34.239
ATOM	146 CE LYS A 19	33.004 20.000 20.01
ATOM	147 NZ LYS A 19	52.116 -9.701 102.442 1.00 79.01 56.229 -7.757 105.405 1.00 55.93
MOTA	148 C LYS A 19	57.230 -7.150 105.796 1.00 59.86
ATOM	149 O LYS A 19	55.515 -7.338 104.367 1.00 49.62
MOTA	150 N ASN A 20	E5 025 -6 130 103.652 1.00 50.02
MOTA	151 CA ASN A 20 152 CB ASN A 20	55 929 -6 359 102.143 1.00 50.62
ATOM	101	56 729 -7 487 101.670 1.00 51.26
ATOM	153 CG ASN A 20	57 948 -7 437 101.843 1.00 46.88
MOTA	104 001	56 130 -8 513 101 074 1.00 50.85
ATOM	100 100 100	55.167 -4.862 104.023 1.00 45.50
MOTA	130 0 1121	55.481 -3.778 103.533 1.00 45.35
MOTA	13,	54.182 -4.997 104.899 1.00 37.46
MOTA	130 11 7	53.374 -3.863 105.321 1.00 32.39
ATCM		52.198 -4.355 106.162 1.00 29.34
ATOM	160 CB HIS A 21 161 CG HIS A 21	51.118 -3.339 106.348 1.00 30.30
ATOM	162 CD2 HIS A 21	50.999 -2.314 107.223 1.00 22.88
MOTA	163 ND1 HIS A 21	49.993 -3.298 105.552 1.00 30.15
ATOM	164 CE1 HIS A 21	49.220 -2.255 105.555 1 00 36 41
ATOM ATOM	165 NE2 HIS A 21	49.014 1.000 100 100 100 10
ATOM	166 C HIS A 21	34.134 2.073 106 263 1 00 26 92
ATOM	167 0 HIS A 21	35.030 3.273 105 000 1 00 31 12
MOTA	168 N PRO A 22	53.965 -1.572 103.505 - 00 00 00
ATOM	169 CD PRO A 22	33.027
ATOM	170 CA PRO A 22	34.702
ATOM	171 CB PRO A 22	53 670 0 434 104.875 1.00 31.52
ATOM	172 CG PRO A 22	54 624 -0 822 108.253 1.00 29.96
ATOM	173 C PRO A 22	FF F7F _0 538 108 981 1.00 27.47
ATOM	174 O PRO A 22	53 501 -1.371 108.715 1.00 26.64
atom	175 N LEU A 23	53 309 -1.644 110.144 1.00 30.44
MOTA	4.0	51 833 -1.428 110.515 1.00 24.09
ATOM	177	51.356 0.029 110.479 1.00 25.30
ATOM	1/8 CG DEG A 20	49.836 0.103 110.668 1.00 17.72
ATOM	179 CD1 LEU A 23 1	52.086 0.816 111.574 1.00 24.15
ATCM	181 C LEU A 23	53.775 -3.015 110.662 1.00 31.64 53.252 -3.512 111.667 1.00 31.00
MOTA	182 O LEU A 23	33.232 3.33 1.00 28 25
ATCM ATOM	183 N LYS A 24	34.733
ATOM	184 CA LYS A 24	33.200
ATOM	185 CB LYS A 24	33.740 3.00 003 1 00 40 77
ATOM	186 CG LYS A 24	3/.1/0
ATOM	187 CD LYS A 24	3/.340
ATOM	188 CE LYS A 24	50.050 -4.990 108.487 1.00 51.30
ATOM	189 NZ LYS A 24	56 383 -4 736 111.581 1.00 32.57
ATOM	190 C LYS A 24	56 605 -5 683 112.245 1.00 29.83
ATOM	191 0 LYS A 24	56 729 -3 497 111,750 1.00 27.06
ATOM	192 N ILE A 25	57 755 -3 200 112,739 1.00 30.45
ATOM	193 CA ILE A 25	58 416 -1.822 112.499 1.00 33.37
ATOM	194 CB ILE A 25	59 056 -1.757 111.120 1.00 33.22
ATCM	195 CG2 ILE A 25	57 361 -0.722 112.662 1.00 30.45
ATOM		57 930 0.689 112.700 1.00 33.12
· ATCM	10, 001 000	57.156 -3.129 114.141 1.00 32.10
ATCM	198 C ILE A 25	-

ATOM	199	0	ILE A	25		55.967	-2.851	114.310	1.00 28.15
MOTA	200	N	PBO A	26		57.979	-3.382	115.168 115.139	1.00 31.64
MOTA	201	CD	PRO A	26		59.395	-3.768 -3.322	116.556	1.00 31.11
ATOM	202	CA	PRO A	26		57.507 58.709	-3.840	117.347	1.00 32.41
MOTA	203	СВ	PRO A	26 26		59.454	-4.691	116.324	1.00 39.33
MOTA	204	CG	PRO A	26		57.265	-1.840	116.827	1.00 28.42
MOTA	205	C .	PRO A PRO A	26		58.001	-0.994	116.315	1.00 22.23
ATOM	206 207	И О	ARG A	27		56.251	-1.514	117.614	1.00 24.16
MOTA	207	CA	ARG A	27		55.977	-0.116	117.899	1.00 28.53
MOTA MOTA	209	CB	ARG A	27		54.787	0.358	117.048	1.00 29.77
MOTA	210	CG	ARG A	27		55.075	0.191	115.554	1.00 29.64
ATOM	211	CD	ARG A	27		53.918	0.538	114.620	1.00 26.61 1.00 28.52
ATOM	212	NE	ARG A	27		53.622		114.517 115.173	1.00 28.32
ATOM	213	CZ	ARG A	27		52.649	2.591 1.924	115.173	1.00 30.17
MOTA	214	NH1		27		51.857 52.451	3.889	114.983	1.00 23.25
MOTA	215	NH2		27 27		55.746	0.114	119.387	1.00 30.71
MOTA	216	С	ARG A	27		56.679		120.113	1.00 24.60
MOTA	217 218	и 0	VAL A	28		54.529	-0.117	119.863	1.00 23.51
MOTA MOTA	219	CA	VAL A	28		54.282	0.093	121.282	1.00 29.33
ATOM	220	CB	VAL A	28		52.800	-0.124	121.635	1.00 34.56
ATOM	221	CG1		28		52.599		123.142	1.00 32.42
ATOM	222	CG2	VAL A	28		51.947		120.903	1.00 33.77 1.00 29.75
MOTA	223	С	VAL A	28		55.158		122.145 123.182	1.00 32.49
ATOM	224	0	VAL A	28		55.673 55.341	-0.394	123.182	1.00 26.09
ATOM	225	N	SER A	29		56.162	-2.982		1.00 31.39
MOTA	226	CA	SER A	29 29	•	56.058	-4.399	121.905	1.00 26.92
MOTA	227 228	CB OG	SER A	29		56.562	-4.464	120.579	1.00 33.85
ATOM ATOM	229	C	SER A	29		57.609	-2.482		1.00 34.77
ATOM	230	Ö	SER A	29		58.378	-2.718	123.391	1.00 29.39
ATOM	231	:1	LEU A	30		57.967		121.380	1.00 31.20 1.00 32.03
ATOM	232	CA	LEU A	30		59.317	-1:234		1.00 32.03 1.00 30.86
MOTA	233	CB	LEU A	30		59.554		119.829	1.00 33.22
MOTA	234	CG	LEU A	30		61.008 61.066	0.484		1.00 28.76
ATOM	235	CD1		30 30		61.948	-0.135		1.00 35.11
ATOM	236 237	CD2 C	LEU A	30		59.423	-0.089		1.00 30.29
ATOM ATOM	237	j.	LEU A	30		60.397	0.019		1.00 27.69
ATOM	239	N	LEU A	31		58.408	0.769	122.232	1.00 27.38
ATOM	240	CA	LEU A	31		58.372	1.915	123.126	1.00 24.94 1.00 24.92
ATOM	241	CB	LEU A	31		57.008	2.596	123.042	1.00 24.32
MOTA	242	CG	LEU A	31		56.918 55.492		123.400	1.00 24.71
MOTA	243		L LEU A	31 31		57.851		124.603	1.00 27.32
ATOM	244		LEU A	31		58.610	1.429	124.564	1.00 28.18
ATOM	245 246	C O	LEU A	31		59.489	1.928	3 125.263	1.00 33.64
ATOM ATOM	247	N	LEU A	32		57.831	0.445	125.000	1.00 30.17
MOTA	248	CA	LEU A	32		57.965	-0.084	1 126.357	1.00 30.59
ATOM	249	CB	LEU A	32		56.944	-1.200	5 126.601	1.00 30.55 1.00 29.50
ATOM	250	CG	LEU A	32	•	55.458	-0.873	9 126.402 7 126.727	1.00 28.31
ATOM	251		1 LEU A			54.611 55.058		3 127.287	1.00 31.92
MOTA	. 252		2 LEU A			59.376		7 126.657	1.00 33.56
MOTA	253	0	LEU A LEU A			59.961	-0.24	3 127.682	1.00 36.51
MOTA	254 255		ARG A			59.926	-1.42	9 125.777	1.00 29.75
ATOM	256		ARG A			61.271	-1.95	3 125.999	1.00 33.49
ATOM ATOM	257		ARG A			61.630	-3.00	3 124.945	1.00 39.50
ATOM	258					60.814		3 125.024	1.00 44.40 1.00 53.68
ATOM	259	CD		. 33		61.237		6 123.933	
MOTA	260	NE				60.515		2 124.007 4 125.014	
ATOM	261					60.611 61.402	/.38 7 19	1 126.045	
ATOM	262					59.911		1 124.991	1.00 57.91
MOTA	263		2 ARG A ARG A			62.314		5 125.978	
MOTA	264	C	איני ט	,		· - 			

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	265 O ARG A 33	63.288 -0.	885 126.722 1.00 26.49
ATOM	266 N PHE A 34		146 125.123 1.00 32.42
ATOM	267 CA PHE A 34	63.042 1.	253 125.000 1.00 33.37
ATOM	207 0	62.617 2.	180 123.858 1.00 31.68
MOTA	200 00 312	63.653 3.	202 123.486 1.00 29.05
ATOM	200 00 000	64.825 2.	819 122.838 1.00 29.21
ATOM	270 CD4 1112 11	63.458 4.	546 123.781 1.00 28.25
MOTYA	2/1 (00)	65 793 3.	763 122.484 1.00 29.35
MOTA	2/2 000 100	64.416 5.	501 123.435 1.00 32.67
MOTA	2/3 (22)	65 589 5.	.108 122.783 1.00 29.08
MOTA	2/4 05	63 083 2	.042 126.305 1.00 33.47
MOTA	2/3 0 5	64 155 2	.294 126.852 1.00 27.49
ATOM	210 0 35	61.912 2	.432 126.802 1.00 29.34
ATOM	2//	61 848 3	.191 128.042 1.00 31.48
MOTA	278 CA LYS A 35 279 CB LYS A 35	60.406 3	.576 128.374 1.00 30.82
MOTA	280 CG LYS A 35	59.803 4	.552 127.395 1.00 32.98
ATOM	281 CD LYS A 35		.974 127.790 1.00 40.93 827 127.688 1.00 44.56
ATOM	282 CE LYS A 35		
ATOM	283 NZ LYS A 35		
MOTA	284 C LYS A 35		
ATOM	285 O LYS A 35	63.136 2	
MOTA	286 N ASP A 36		1 00 27 03
ATOM	287 CA ASP A 36		
MOTA	288 CB ASP A 36		
ATOM	289 CG ASP A 36		1 00 43 03
ATOM	290 OD1 ASP A 36		
MOTA MOTA	291 OD2 ASP A 36		
ATOM	292 C ASP A 36	•	
ATOM	293 O ASP A 36		0.187 131.201 1.00 36.23 0.127 128.958 1.00 37.96
ATOM	294 N ALA A 37	_	0.080 128.768 1.00 39.49
ATOM	295 CA ALA A 37		0.158 127.299 1.00 39.74
ATOM	296 CB ALA A 37		1.386 129.244 1.00 40.09
ATOM	297 C ALA A 37	~ - · · ·	1.402 129.714 1.00 38.80
ATOM	298 O ALA A 37		2.477 129.131 1.00 39.04
MOTA	299 N MET A 38	66.085 66.567	3.789 129.545 1.00 38.71
ATOM	300 CA MET A 38	65.965	4 863 128 640 1.00 36.66
MOTA	301 CB MET A 38	66.335	4 744 127.173 1.00 39.16
ATOM	302 CG MET A 38	68.005	5 298 126 840 1.00 37.55
MOTA	303 SD MET A 38	67.892	7 033 127 287 1.00 35.74
MOTA	204 62 64	66 187	4.094 130.995 1.00 40.58
MOTA	303 0	66.484	5.173 131.502 1.00 38.12
MOTA	300 0	65.530	3.147 131.657 1.00 38.41
MOTA	307 11	65.094	3.346 133.039 1.00 42.46
MOTA	500 c	66.298	3.494 133.979 1.00 46.06
ATOM	309 00 11011 11	67.125	2 224 134.074 1.00 51.69
MOTA	310 CG ASN A 39 311 OD1 ASN A 39	66.625	1.175 134.487 1.00 54.33 2.313 133.695 1.00 49.13
MOTA	312 ND2 ASN A 39	68.396	
MOTA	313 C ASN A 39	64.222	
MOTA	314 O ASN A 39	64.375	
MOTA	315 N LEU A 40	63.301	
MOTA MOTA	316 CA LEU A 40	62.427	
	317 CB LEU A 40	62.524	
MOTA MOTA	318 CG LEU A 40	63.940	7.074 130.447 1.00 40.40 7.753 129.088 1.00 32.75
ATOM ·	200 7577 3 40	63.916	
MOTA	320 CD2 LEU A 40	64.470	8.031 131.513 1.00 38.89 5.610 132.505 1.00 38.97
ATOM	321 C LEU A 40	60.967	6.409 132.213 1.00 32.32
ATOM	322 O LEU A 40	60.076	0. 30 E7
ATCM	323 N ILE A 41	60.720	4.461 133.124 1.00 38.37 4.109 133.520 1.00 42.43
ATOM	324 CA ILE A 41	59.363	2 575 132 330 1.00 39.13
ATOM	325 CB ILE A 41	58.536	2 271 131 820 1.00 36.51
ATOM	326 CG2 ILE A 41	.59.137 57.082	3 367 132 774 1.00 38.71
ATOM	327 CG1 ILE A 41	56.147	2 920 131 676 1.00 44.09
ATOM	328 CD1 ILE A 41	59.376	2 056 134 619 1.00 42.40
ATOM	329 C ILE A 41	60.255	2.195 134.654 1.00 43.05
ATCM	330 O ILE A 41	00.223	= · = ·
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MOTA	331	N	ASP A	42	58.414	3.148 135.532	1.00 47.83
ATOM	332		ASP A	42	58.301	2.183 136.620	1.00 49.23 1.00 46.60
ATOM	333	CB	ASP A	42	58.243	2.880 137.984	1.00 46.60
MOTA	334	CG	ASP A	42	59.493	3.688 138.284	1.00 49.28
MOTA	335		ASP A	42	60.614	3.146 138.141 4.866 138.678	1.00 43.20
ATOM	336		ASP A	42	59.355		1.00 51.22
MOTA	337	С	ASP A	42	57.034	1.368 136.405 1.866 135.864	1.00 48.07
MOTA	338	0	ASP A	42	56.048 57.072	0.111 136.832	1.00 51.41
MOTA	339	N	GLU A	43	57.072 55.945	-0.792 136.673	1.00 50.67
MOTA	340	CA	GLU A	43	56.234	-2.094 137.412	1.00 54.49
ATOM	341	CB	GLU A	43	55.208	-3.178 137.185	1.00 60.55
MOTA	342	CG	GLU A	43 43	55.524	-4.432 137.974	1.00 66.12
ATOM	343	CD	GLU A	43	54.761	-5.417 137.861	1.00 70.33
ATOM	344	OE1 OE2	GLU A	43	56.536	-4.427 138.711	1.00 67.39
MOTA	345 346	C	GLU A	43	54.645	-0.178 137.178	1.00 50.20
ATOM	347	0	GLU A	43	53.567	-0.475 136.658	1.00 48.27
ATOM ATOM	348	N	LYS A	44	54.755	0.683 138.186	1.00 49.04
ATOM	349	CA	LYS A	44	53.601	1.356 138.778	1.00 47.56
ATOM	350	CB	LYS A	44	54.013	2.004 140.112	1.00 54.73
ATOM	351	CG	LYS A	44	53.190	3.229 140.542	1.00 58.07
ATOM	352	CD	LYS A	44	53.705	4.500 139.853	1.00 61.24 1.00 61.93
ATOM	353	CE	LYS A	44	52.849	5.727 140.151	1.00 61.93 1.00 62.80
ATOM	354	NZ	LYS A	44	51.501	. 5.644 139.519	1.00 62.80
ATOM	355	C	LYS A	44	52.929	2.387 137.875 2.701 138.052	1.00 45.31
MOTA	356	0	LYS A	44	51.752	2.701 138.052 2.915 136.914	1.00 41.03
ATOM	357	N	GLU A	45	53.674 53.140	3.914 135.994	1.00 41.23
ATOM	358	CA	GLU A	45	54.271	4.810 135.500	1.00 38.52
ATOM	359	CB	GLU A	45 45	54.973	5.572 136.589	1.00 40.30
ATOM	360	CG	GLU X	45	56.241	6.222 136.096	1.00 38.06
MOTA	361	CD OE1		45	57.170	5.478 135.715	1.00 36.93
MOTA	362 363	OE2		45	56.306	7.467 136.084	1.00 32.57
MOTA MOTA	364	C	GLU A	45 .	52.479	3:253 134.791	1.00 40.69
ATOM	365	ŏ	GLU A		51.783	3.907 134.015	1.00 39.77
ATOM	366	N	LEU A		52.700	1.953 134.645	
ATOM	367	CA	LEU A	46	52.165	1.207 133.517	
ATOM	368	CB	LEU A	46	53.222	0.219 133.034	
ATOM	369	CG	LEU A		52.873	-0.619 131.811 0.292 130.630	
ATOM	370	CD1			52.571	0.292 130.630 -1.544 131.500	
MOTA	371	CD2			54.035 50.852	0.467 133.780	
MOTA	372	C	LEU A		50.832	-0.306 134.730	
MOTA	373	0	LEU A		49.861	0.718 132.928	
MOTA	374	N	ILE A	·	48.560	0.068 133.033	1.00 32.12
MOTA	375	CA	ILE A		47.413	1.087 132.937	1.00 32.35
TOM	376 377	CB	ILE A	47	46.069	0.360 132.833	1.00 30.60
MOTA	378	CG			47.448	2.015 134.15	1.00 36.56
ATOM ATOM	379	CD		_	46.372	3.080 134.16	1.00 35.46
ATOM	380	c c	ILE A		48.428	-0.920 131.88	
ATOM	381	ō	ILE A		48.505	-0.532 130.71	
ATOM	382	N	LYS A		48.231	-2.195 132.209	1.00 32.98 1.00 30.98
MOTA	383	CA	LYS A		48.102	-3.224 131.17	
ATOM	384		LYS A		48.038	-4.609 131.82	
MOTA	385		LYS A		47.956	-5.747 130.819 -7.102 131.50	
ATOM	386	CD	LYS A	_	47.989		
ATOM	387		LYS A		47.967		
ATOM	388		LYS A		49.151		
ATOM	389		LYS		46.869 45.764		
ATCM	390		LYS		47.071		6 1.00 30.69
ATOM	391		SER		45.989		3 1.00 29.32
ATOM	392				46.551		9 1.00 31.53
ATOM	393				47.571	-1.834 126.44	3 1.00 30.74
ATOM	394		SER .		44.952	-3.916 128.14	7 1.00 31.31
ATOM	395		SER		45.295		
ATOM	396	0	713 ج	>			

		43 688 -3.582 127.922 1.00 32.87
MOTA	397 N ARG A 50	43.000 3.00 1.00 21.45
MOTA	398 CA ABG A 50	42.034
ATOM	399 CB ARG A 50	41.000
ATOM	400 CG ARG A 50	40.729 -3.103 128.915 1.00 32.03 39.653 -3.055 130.008 1.00 30.46
MOTA	401 CD ARG A 50	38.821 -1.850 129.964 1.00 25.21
ATOM	402 NE ARG A 50	37 930 -1 569 129.016 1.00 28.32
MOTA	403 CZ ARG A 50	37.726 -2 406 128.001 1.00 25.45
MOTA	404 NH1 ARG A 50	37 238 -0 439 129.087 1.00 24.92
MOTA	405 NH2 ARG A 50	41 894 -4 470 126.638 1.00 31.12
MOTA	406 C ARG A 50 407 O ARG A 50	41 995 -3 406 126.019 1.00 24.62
MOTA	30,	41 264 -5.566 126.181 1.00 32.55
MOTA	400 17 500	41.164 -6.921 126.751 1.00 32.40
MOTA	409 CD PRO A 51 410 CA PRO A 51	40.534 -5.506 124.917 1.00 30.36 40.538 -6.967 124.683 1.00 33.95
ATOM ATOM	411 CB PRO A 51	40.130
ATOM	412 CG PRO A 51	41.1/3
ATOM	413 C PRO A 51	39.309 4.030 1 00 00 04
ATOM	414 O PRO A 51	38.8//
MOTA	415 N ALA A 52	37 556 -3 294 124.183 1.00 29.61
ATOM	416 CA ALA A 52	27 365 -2 447 122,956 1.00 28.67
ATOM	417 CB ALA A 52 418 C ALA A 52	36.437 -4.321 124.288 1.00 32.39
MOTA	410	36.603 -5.453 123.844 1.00 30.40
ATOM	417	35.318 -3.947 124.896 1.00 32.98
MOTA	420 N THR A 53 421 CA THR A 53	34.192 -4.868 124.997 1.00 36.61 33.253 -4.514 126.166 1.00 34.22
ATOM	422 CB THR A 53	33,233
ATOM ATOM	423 OG1 THR A 53	34.734 3.475 4.60 35 45
ATOM	424 CG2 THR A 53	33.330 3.33 702 1 00 30 94
MOTA	425 C THR A 53	33.411
ATOM	426 O THR A 53	33.535 -5.679 123.372 1.00 39.19
MOTA	427 N LYS A 54	31 792 -5 595 122.152 1.00 40.71
MOTA	428 CA LYS A 54	30.933 -6.851 121.994 1.00 41.68
MOTA	423 00 220	30.367 -7.034 120.597 1.00 49.42
MOTA	430 60 54	29.541 -8.310 120.508 1.00 51.82
MOTA	431 CD LYS A 54 432 CE LYS A 54	29.075 -8.588 119.087 1.00 52.94 29.075 -8.8879 118.182 1.00 54.26
ATOM	433 NZ LYS A 54	30,210
MOTA MOTA	434 C LYS A 54	30.913
MOTA	435 O LYS A 54	30.719
ATOM	436 N GLU A 55	20 554 -2 913 123 665 1.00 36.18
ATOM	437 CA GLU A 55	29.109 -2.877 125.127 1.00 42.16
MOTA	438 CB GLU A 55	28 223 -1.694 125.476 1.00 46.04
MOTA	439 CG GLU A 55	27.873 -1.639 126.953 1.00 51.15
MOTA	440 CD CD	27.092 -0.748 127.343 1.00 56.53
ATOM	441 OE1 GLU A 55 442 OE2 GLU A 55	28.382 -2.482 127.727 1.00 31.07
ATOM	443 C GLU A 55	30.278 -1.607 123.32: 1.00 33.43
ATOM ATOM	444 O GLU A 55	23.721
ATOM	445 N GLUA 56	31.310
ATOM	446 CA GLU A 56	32.235 -0.329 124.232 1.00 30.71
ATOM	447 CB GLU A 56	33.474 -0.484 125.746 1.00 35.09
MOTA	448 CG GLU A 56	24 797 -0 675 126,479 1.00 32.29
MOTA	440 00 000	35 645 -1.434 125.986 1.00 34.54
MOTA	430 022	34 951 -0.094 127.569 1.00 33.25
MOTA	732 000 000	32 495 -0.104 121.988 1.00 32.31
ATCM	452 C GLU A 56 453 O GLU A 56	32.341 1.00 35 58
ATOM	454 N LEU A 57	32.027
atom atom	455 CA LEU A 57	33,033 =1=1 = 20 25 25
ATOM	456 CB LEU A 57	34 920 -3 030 119 814 1.00 36.19
ATOM	457 CG LEU A 57	35 005 =4 390 119.183 1.00 33.69
ATCM	458 CD1 LEU A 57	35.035 3.041 119.433 1.00 32.61
ATOM	459 CD2 LEU A 57	31 772 -0.717 119.157 1.00 36.02
atom	400 C 220	31 828 0.067 118.205 1.00 32.72
ATOM	401 0 1 [0	30.631 -1.228 119.620 1.00 32.35
ATCM	462 N LEU A 58	

				29.353	-0.898 119.004	1.00 33.21
ATOM	463	CA LEU A	58		1 044 110 405	1.00 35.17
ATOM	464	CB LEU A	58		-1.844 119.495	
		CG LEU A	58	28.504	-3.296 119.077	1.00 33.71
MOTA	465		58	27.338	-4.166 119.524	1.00 36.80
ATOM	466	CD1 LEU A			-3.364 117.570	1.00 36.50
ATOM	467	CD2 LEU A	58	28.665		1.00 30.99
ATOM	468	C LEU A	58	28.940	0.543 119.222	
			58	27.915	0.985 118.700	1.00 35.50
MOTE	469	-		29.733	1.279 119.993	1.00 32.55
ATOM	470	11 LEU A	59	29.733		1.00 30.37
MOTA	471	CA LEU A	59	29.443		1.00 28.01
MOTA	472	CB LEU A	59	30.387	3.279 121.268	
			59 -	30.174	2.828 122.716	1.00 32.19
MOTA	473			31.248	3.427 123.604	1.00 24.85
ATOM	474	CD1 LEU A	59		3.263 123.192	1.00 25.65
MOTA	475	CD2 LEU A	59	28.785		1.00 31.26
ATOM	476	C LEU A	59	29.632	3.405 118.890	
	477	O LEU A	59	29.020	4.442 118.652	1.00 31.80
ATOM			60	30.482	2.850 118.026	1.00 29.79
ATOM	478			30.726	3.454 116.716	1.00 30.24
MOTA	479	CA PHE A	60		4.055 116.637	1.00 29.99
MOTA	480	CB PHE A	60	32.131		
MOTA	481	CG PHE A	60	32.443	4.691 115.299	
	482	CD1 PHE A	60	31.706	5.780 114.845	1.00 25.58
MOTA			60	33.448	4.178 114.479	1.00 24.00
ATOM	483	CD2 PHE A			6.351 113.592	1.00 25.12
MOTA	484	CE1 PHE A	60	31.959	_	1.00 25.98
ATOM	485	CE2 PHE A	60	33.709		
	486	CZ PHE A	60	32.963	5.828 112.781	
ATOM			60	30.536	2.520 115.529	1.00 30.30
MOTA	487			29.810	2.854 114.602	1.00 32.82
MOTA	488	O PHE A	60		1.363 115.543	1.00 32.85
ATOM	489	N HIS A	61	31.195		1.00 34.59
MOTA	490	CA HIS A	61	31.075	0.418 114.431	
	491	CB HIS A	61	32.296	-0.492 114.361	1.00 32.89
MOTA			61	33.576	0.238 114.116	1.00 34.25
MOTA	492	CG HIS A		34.225	0.532 112.967	1.00 34.67
MOTA	493	CD2 HIS A	61			1.00 37.78
MOTA	494	MD1 HIS A	61	34.328		
ATOM	495	CE1 HIS A	61	35.390	1.382 114.619	
	496	NE2 HIS A	61	35.350	1.243 113.307	1.00 37.91
MOTA			61	29.824	-0.449 114.480	1.00 38.44
MOTA	497	C HIS A		29.213	-0.612 115.538	1.00 35.78
ATOM	498	A ZIH C	61		•	1.00 39.73
MOTA	499	N THR A	62	29.462		1.00 38.05
	500	CA THR A	62	28.278	-1.868 113.218	
ATOM		CB THR A	62	27.682	-1.825 111.804	1.00 37.22
MOTA	501		62	28.631	-2.345 110.867	1.00 41.15
MOTA	502	OG1 THR A		27.348	-0.404 111.418	1.00 38.27
MOTA	503	CG2 THR A	62		-3.317 113.551	1.00 39.06
ATOM	504	C THR A	62	28.598		1.00 39.32
ATOM	505	A THR A	62	29.731	-3.768 113.392	1.00 33.32
		N GLU A	63	27.582	-4.034 114.017	1.00 40.92
ATOM	506		63	27.696	-5.441 114.393	1.00 40.68
MOTA	507			26.303	-6.000 114.704	1.00 43.19
ATOM	508	CB GLU A	63		-7.451 115.171	1.00 46.90
ATOM	509	CG GLU A	63	26.269	-7.431 113.171	
ATOM	510	CD GLU A	63	26.472	-7.593 116.665	
		GE1 GLU A	63	26.601	-8.739 117.152	1.00 52.78
MOTA	511	252 614 3		26.487	-6.556 117.358	1.00 57.24
ATOM	512	DE2 GLU A		28.320	-6.263 113.268	1.00 36.19
ATOM	513	C GLU A	63		= 211 113 481	
ATOM	514	o GLU A	63	29.272	-7.011 113.481	
	515			27.755	-6.119 112.074	
ATOM				28.198	-6.841 110.886	1.00 37.61
ATOM	516	_		27.363	-6.382 109.697	1.00 43.30
ATOM	517	_				
ATOM	519	CG ASP A		27.313		
	519		. 64	28.290		
ATOM				26.298	-4.285 110.018	1.00 53.97
ATOM	520			29.673		1.00 35.04
MOTA	521					
ATOM	522) D ASP A		30.379		
ATOM	523		. 65	30.144		
	524			31.554	-5.153 110.41	
ATCM				31.793	-3.637 110.37	5 1.00 34.80
atom	525			33.247		9 1.00 35.19
ATOM	526					
ATCM	527	CD1 TYR A		34.009		
	528		A 65	35.352	-3.411 109.02	4 1.00 JE.JE
atom	220					

ATOM

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                                  33.863
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MOTA
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                                 35.211
              CE2 TYR A 65
        530
MOTA
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                  TYR A 65
              CZ
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ATOM
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                  TYR A 65
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-6.557 111.209
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CB ASN A 67
CG ASN A 67
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OE2 GLU A 71
C GLU A 71
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           594 OE2 GLU A 73
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ATOM	595	С	GLU A	73	40.906 -14.615 112.485 1.00 31.73
				73	41.957 -15.249 112.409 1.00 32.96
ATOM	596	0	GLU A		
ATOM	597	N	ARG A	74	35.750 25.210 202.75
	598	CA	ARG A	74	39.847 -16.511 113.502 1.00 43.24
ATOM				-	38.548 -16.892 114.216 1.00 43.63
MOTA	599	CB	ARG A	74	30.000
ATOM	600	CG	ARG A	74	
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MOTA	601	CD	ARG A		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
MOTA	602	NE	ARG A	74	JJ. JJ4 10:071 120:110
	603	CZ	ARG A	. 74	35.991 -19.870 112.403 1.00 56.36
ATOM					37.273 -20.208 112.446 1.90 51.10
ATOM	604	NH1	ARG A	74	
ATOM	605	NH2	ARG A	74	33,2,0
	606	С	ARG A	74	40.125 -17.506 112.372 1.00 43.06
ATOM					40.916 -18.429 112.541 1.00 42.52
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			SER A	75	39.670 -18.186 110.066 1.00 44.93
MOTA	609	CA			38.485 -18.089 109.113 1.00 42.05
MOTA	610	CB	SER A	75	30.000 =
ATOM	611	OG	SER A	75	38.420 -16.799 108.532 1.00 38.43
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MOTA	612	C	SER A	. –	41.339 -18.522 108.383 1.00 45.17
ATOM	613	0	SER A	75	*****
ATOM	614	N	GLN A	76	41.466 -16.638 109.618 1.00 46.18
			GLN A	76	42.642 -16.116 108.936 1.00 44.73
ATOM	615	CA			43.868 -16.973 109.226 1.00 37.36
ATOM	616	CB	GLN A	76	
ATOM	617	CG	GLN A	76	45.162 -16.208 109.045 1.00 43.96
			GLN A	76	45.415 -15.214 110.176 1.00 41.86
MOTA	618	CD			
MOTA	619	OE1	GLN A	76	77. 70. 45.00
MOTA	620	NE2	GLN A	76	46.669 -15.111 110.591 1.00 45.00
			GLN A	76	42.374 -16.120 107.429 1.00 44.17
MOTA	621	С			
MOTA	622	0	GLN A	76	
ATOM	623	N	SER A	77	41.168 -15.713 107.053 1.00 43.11
			SER A	77	40.784 -15.667 105.649 1.00 44.66
MOTA	624	CA			100 44 50
MOTA	625	CB	SER A	7 7	10.00
ATOM	626	OG	SER A	77	38.974 -17.246 105.925 1.00 42.58
				77	39.747 -14.573 105.448 1.00 44.80
MOTA	627	С	SER A		
MOTA	628	0	SER A	77	
MOTA	629	N	VAL A	78	
				78	38.632 -13.095 103.888 1.00 47.65
ATOM	630	CA	VAL A		
ATOM	631	CB	VAL A	78	33.20
ATOM	632	CG1	VAL A	78	38.076 -11.167 102.391 1.00 51.25
				78	40.454 -11.627 103.017 1.00 53.00
MOTA	633	CG2			
MOTA	634	C	VAL A	78	
ATOM	635	0	VAL A	78	
			PRO A	79	36.282 -13.492 104.407 1.00 49.82
atom	636	N			36.347 -12.782 105.696 1.00 50.81
ATOM	637	CD	PRO A	79	
ATOM	638	CA	PRO A	79	34.30
			PRO A	79	34.170 -13.450 105.396 1.00 53.13
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MOTA	640	CG	PRO A	- 9	33.244 13.403 200110
MOTA	641	C	PRO A	; 9	
	642	ō	PRO A	9	34.670 -12.428 102.382 1.00 55.73
MOTA			PRO A		33.482 -14.343 102.273 1.00 49.63
ATOM	643	N	LYS A	80	
ATOM	644	CA	LYS A	80	J2.002
			LYS A	80	31.632 -15.004 100.822 1.00 53.92
MOTA	645	CB			30.817 -14.808 99.545 1.00 56.27
MOTA	646	CG	LYS A	80	
	647	CD	LYS A	80	45.000 ==
MOTA				80	28.744 -15.579 98.298 1.00 56.04
MOTA	648	CE	LYS A		20
ATOM	649	NZ	LYS A	80	
	650	C	LYS A	80	32.338 -12.607 100.874 1.00 51.10
ATOM					31.539 -12.140 101.689 1.00 49.22
ATOM	651	0	LYS A	80	
ATOM	652	N	GLY A	81	
	653	CA	GLY A	81	32.418 -10.537 99.592 1.00 47.07
ATOM					32.876 -9.496 100.599 1.00 46.90
ATOM	654	С	GLY A		34.0.0
ATOM	655	0	GLY A	81	32.012 A EO
	656	N	ALA A		33.504 -9.942 101.681 1.00 44.50
ATOM					33 973 -9.029 102.715 1.00 44.69
ATOM	657	CA	ALA A		
ATOM	658	ac	ALA A	82	1 00 41 92
	659	c	ALA A		35.049 -8.073 102.215 1.00 41.82
atom					35.132 -6.925 102.662 1.00 35.92
ATOM	660	0	ala a	0.4	JJ.175

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MOTA
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ATOM
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                  ARG A
                          83
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                   LYS A
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               CE1 TYR A
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                    TYR A
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                                            -6.658 106.738
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                C
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                    GLY A
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MOTA

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ATOM	727	CA	TYR A	91	47.539			
ATOM	728	CB	TYR A	91	48.477	-4.365	99.805	1.00 22.62
			TYR A	91	48.066	-3.039	99.194	1.00 24.28
MOTA	729				48.374	-1.829	99.822	1.00 21.55
MOTA	730		TYR A	91			99.275	1.00 24.69
MOTA	731	CEl	TYR A	91	47.970	-0.609		
ATOM	732	CD2	TYR A	91	47.341	-2.997	98.002	1.00 24.86
				91	46.931	-1.786	97.447	1.00 29.92
Mota	733		TYR A		47.250	-0.597	98.086	1.00 29.04
MOTA	734	CZ	TYR A	91			97.516	1.00 29.51
MOTA	735	OH	TYR A	91	46.861	0.593		
	736	С	TYR A	91	47.452	-3.777	101.998	1.00 27.52
ATOM				91	. 48.314	-3.689	102.869	1.00 27.20
MOTA	737	0	TYR A			-2.971	101.938	1.00 26.75
MOTA	738	N	GLU A	92	46.402			
ATOM	739	CA	GLU A	92	46.232	-1.879	102.882	1.00 28.38
		CB	GLU A	92	45.234	-0.881	102.310	1.00 28.57
MOTA	740				45.232	0.471	102.982	1.00 36.94
ATOM	741	CG	GLU A	92		1.395	102.396	1.00 37.40
ATOM	742	CD	GLU A	92	44.178			
MOTA	743	OE1	GLU A	92	42.999	1.293	102.794	1.00 31.22
	744	OE2	GLU A	92	44.527	2.209	101.516	1.00 40.54
ATOM					45.770	-2.343	104.259	1.00 29.20
MOTA	745	С	GLU A	92		-2.015	105.268	1.00 21.86
ATOM	746	0	GLU A	92	46.389		103.206	
ATOM	747	N	ASN A	93	44.687	-3.117	104.286	1.00 26.51
		CA	ASN A	93	44.109	-3.613	105.527	1.00 24.02
MOTA	748				42.727	-2.988	105.690	1.00 24.51
MOTA	749	CE	ASN A	93		-1.488	105.405	1.00 28.61
ATOM	750	CG	ASN A	93	42.738			
ATOM	751	001	ASN A	93	43.428	-0.727	106.079	1.00 25.30
			ASN A	93	41.987	-1.063	104.393	1.00 20.45
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ATOM	753	С	ASN A	93				1.00 21.89
MOTA	754	0	ASN A	93	42.905	-5.680		_
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ATOM			PRO A	94	46.493	-5.246	105.540	1.00 22.93
MOTA	756	CD			45.241	-7.285		1.00 27.23
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ATCM	759	CG	PRO A	94	47.299	-6.431	106.046	1.00 26.20
			PRO A	94	44.743	-8.112	106.489	1.00 31.04
MOTA	760	C			44.411	-7.589		1.00 29.10
MOTA	761	С	PRO A					1.00 28.27
ATOM	762	N	VAL A	95	44.696	-9.422		
ATOM	763	CA	VAL A	95	44.299	-10.367		1.00 28.82
		CB	VAL A		43.938	-11.737	106.677	1.00 30.75
MOTA	764				43.745	-12.766		1.00 33.60
MOTA	765	CG1	VAL A	_				1.00 24.87
ATOM	766	CG2	VAL A	. 95	42.679	-11.611	· · · · · · · · · · · · · · · · · · ·	
ATOM	767	C	VAL A	95	45.503	-10.549		
	768	ō	VAL A		46.637	-10.649	107.729	1.00 31.36
MOTA				•	45.264	-10.572	109.510	1.00 29.38
MOTA	769	17	SER A			-10.766		1.00 32.56
ATOM	770	CA	SER A	96	46.335			
ATOM	771	CB	SER A	96	47.325	-9.600		1.00 34.15
		eg.	SER A	·	46 758	-8.448	3 111.051	1.00 28.33
MOTA	772				45 691		111.854	1.00 32.10
ATOM	773	C	SER A		45.001	10.004	111 050	1.00 37.91
ATOM	774	0	SER A	96	44 458	-10.83	111.950	
	775	N .	TYR A		46.484	-10.79	5 112.913	1.00 32.57
ATOM			TYR A		45.914	-10.803	1 114.248	1.00 34.95
MOTA	776	CA			16 605	-11 73	5 115.182	1.00 35.47
ATOM	777	CЗ	TYR A		40.000	-11.75	7 113.102	1.00 40.65
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	779	CDi			47.319	-13.81	2 113.882	1.00 40.63
ATOM					47.083	-15.12	1 113 475	1.00 42.16
MOTA	780	CE1			45 401	_13 01	0 115.338	
MOTA	781	CD2			45.421	-13.71	0 114 026	
ATOM	782	CES		97	45.175	-15.21	9 114.936	
	783	cs.	TYR A		46.010	-15.81	6 114.005	1.00 42.56
MOTA					45 772	-17.10	5 113.601	1.00 46.03
ATOM	784	CH	TYR				4 114.813	
MOTA	785	С	TYR A		45.862	-7.37	2 11E 000	
ATCM	786	0	TYR	97	45.501		5 115.998	
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ATOM					46.048	-7 02	4 114.341	1.00 30.43
ATOM	788		ALA					
ATOM	789	CB	ALA		47.105			
	790		ALA	a 98	44.658	-6.53	3 113.962	
ATOM	791		ALA		44.099	-5.65	5 114.612	1.00 31.82
ATCM					44.094	-7 13	0 112.915	1.00 30.40
ATOM	792	N	MET	בכ ה	44.027	. ,		

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ATOM	794 CB MET A 99	42.370 -7.620 111.238 1.00 30.55
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ATOM -	798 C MET A 99	41.703
ATOM.	799 O MET A 99	40.010
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ATOM	803 CG PHE A 100	30.095
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ATOM	805 CD2 PHE A 100	30.730 3.30 1.00 31 41
MOTA	806 CE1 PHE A 100	30.034
MOTA	807 CE2 PHE A 100	37.873 -9.356 118.644 1.00 26.39 36.913 -8.355 118.618 1.00 24.06
ATOM	808 CZ PHE A 100	41 345 -7 616 116.922 1.00 29.67
MOTA	809 C PHE A 100	41 028 -6 751 117.740 1.00 29.67
MOTA	810 O PHE A 100 811 N THR A 101	42 181 -8.610 117.222 1.00 31.30
ATOM		42 770 -8.701 118.562 1.00 31.37
ATOM		43.610 -9.977 118.732 1.00 31.63
MOTA	813 CB THR A 101 814 OG1 THR A 101	42.777 -11.119 118.532 1.00 31.64
MOTA	815 CG2 THR A 101	44.197 -10.045 120.137 1.00 27.38
ATOM	816 C THR A 101	43.647 -7.493 118.884 1.00 31.66
ATOM ATOM	817 O THR A 101	43.502 -6.875 119.942 1.00 30.71 44.562 -7 166 117.976 1.00 27.40
MOTA	818 N GLY A 102	44.502
MOTA	819 CA GLY A 102	43.430
ATOM	820 C GLY A 102	44.001
ATOM	821 O GLY A 102	44.703
ATOM	822 N SER A 103	43.707
MOTA	823 CA SER A 103	42.941 -3.314 117.216 1.00 31.91 42.085 -3.334 115.949 1.00 34.63
MOTA	824 CB SER A 103	42.005 -3.265 114.791 1.00 35.94
ATOM	825 OG SER A 103	12 046 -3 163 118,441 1.00 32.44
MOTA	826 C SER A 103 827 O SER A 103	41.891 -2.065 118.984 1.00 25.78
ATOM		41 455 -4.270 118.871 1.00 30.47
MOTA	828 N SER A 104 829 CA SER A 104	40.584 -4.251 120.038 1.00 30.22
MOTA	830 CB SER A 104	39.978 -5.633 120.265 1.00 23.88
ATOM ATOM	831 OG SER A 104	39.078 -5.595 121.358 1.00 36.91 41.367 -3.841 121.282 1.00 28.13
ATOM	832 C SER A 104	41.307
ATOM	833 O SER A 104	40.872
ATOM	834 N LEU A 105	42.334 1.00 520 1.00 20 52
ATOM	835 CA LEU A 105	43.443
ATOM	836 CB LEU A 105	45 461 -5 176 123 754 1.00 40.34
ATOM	837 CG LEU A 105	44 520 -5 723 124.828 1.00 35.95
ATOM	838 CD1 LEU A 105	46 582 -6 178 123.462 1.00 40.23
MOTA	839 CD2 LEU A 105 840 C LEU A 105	43.834 -2.552 122.511 1.00 32.09
MOTA	105	43.896 -1.894 123.554 1.00 30.38
ATOM		44 081 -2.029 121.314 1.00 30.26
ATOM	100	44.448 -0.626 121.151 1.00 28.31
ATOM	843 CA ALA A 106 844 CB ALA A 106	44.958 -0.386 119.738 1.00 23.00
MOTA	845 C ALA A 106	43.243 0.268 121.434 1.00 26.04 43.380 1 376 121.952 1.00 20.63
MOTA MOTA	846 O ALA A 106	43.360 2.37 2.00 3.00 3.00 3.00
ATOM	847 N THR A 107	42.030
ATOM	S48 CA THR A 107	40.041
ATOM	349 CB THR A 107	33.700
ATOM	850 OG1 THR A 107	20.111 0.824 120.629 1.00 19.80
MOTA	851 CG2 THR A 107	10 450 0 503 122.798 1.00 27.90
ATOM	352 C THR A 107	40 030 1 515 123 361 1.00 29.04
ATOM	353 O THR A 107	40 585 -0.662 123.422 1.00 24.01
MOTA	354 N GLY A 108 355 CA GLY A 108	40 256 -0.767 124.832 1.00 24.00
ATOM		41 181 0.155 125.603 1.00 23.86
ATOM	100	40 771 0 790 126.572 1.00 26.97
ATOM	857 O GLY A 108 858 N SER A 109	
ATCM	550 N ==== 200	

ATOM	859	CA	SER A 1	09	43.421	1.090	125.807	1.00 20.96
	860	CB	SER A 1		44.795	0.910	125.160	1.00 24.84
ATOM					45.294	-0.393		1.00 25.84 -
ATOM	861	OG	SER A 1		43.008	2.552		1.00 21.13
MOTA	862	С	SER A 1			2.332	126.672	1.00 23.17
ATCM	863	0	SER A 1		43.323	3.312	120.072	
ATOM	864	N	THR A 1.	10	42.311	2.949	124.698	1.00 20.83
ATOM	865	CA	THR A 1		41.841	4.327	124.583	1.00 21.84
			THR A 1		41.332	4.648	123.161	1.00 24.33
MOTA	866	CB			42.452		122.276	1.00 25.38
MOTA	867	OG1	THR A 1				123.144	1.00 21.18
ATOM	868	CG2	THR A 1		40.543		125.600	1.00 28.52
MOTA	869	С	THR A 1		40.725	4.561		1.00 28.27
ATOM	870	0	THR A 1	10	40.632		126.197	
ATOM	871	N	VAL A 1		39.882		125.809	1.00 26.88
	872	CA	VAL A 1		38.811	3.706	126.793	1.00 30.04
MOTA			VAL A 1		37.820	.2.519	126.742	1.00 29.94
MOTA	873	CB	VAL A I	4 4	36.737	2 693	127.802	1.00 27.07
MOTA	874		VAL A 1		37.193	2 431	125.355	1.00 25.26
MOTA	875	CG2	VAL A 1	. 1 1		2.331	128.187	1.00 28.10
ATOM	876	С	VAL A 1		39.440	3.797	120.107	1.00 26.06
MOTA	877	0	VAL A 1		38.968		129.039	
ATOM	878	N	GLN A 1	.12	40.521	3.056	128.415	1.00 23.92
MOTA	879	CA	GLN A 1	12	41.188	3.097	129.711	1.00 30.27
			GLN A 1		42.268	2.020	129.804	1.00 28.61
MOTA	880	CB	GLN A 1		41.777		129.481	1.00 28.90
ATOM	881	CG			42.883		129.564	1.00 28.60
ATOM	882	CD	GLN A 1				130.653	1.00 29.68
ATOM	883	OE1	GLN A 1	112	43.344			1.00 22.13
ATOM	884	NE2	GLN A 1	12	43.333		128.409	
ATOM	885	С	GLN A 1		41.834		129.931	1.00 29.99
	886	ō	GLN A 1		41.791	5.006	131.035	1.00 28.43
MOTA			ALA A 1		42.453	5.004	128.885	1.00 28.64
MOTA	887	N	ALA A	112	43.083	6 315	129.001	1.00 26.62
MOTA	888	CA	ALA A 1		43.693	6 732	127.684	1.00 23.49
MOTA	889	CB	ALA A 1	113		7 307	129.407	1.00 24.63
MOTA	890	С	ALA A'I	113	42.005	7.307	129.407	1.00 26.38
ATOM	891	0	ALA A I	113	42.232		130.240	
MOTA	892	N	ILE A 3	114	40.824	7.163	128.822	1.00 25.26
MOTA	893	CA	ILE A		39.728		129.145	1.00 27.05
	894	CB	ILE A		38.554	7.887	128.156	1.00 26.93
ATOM			_		37.387	8.770	128.576	1.00 25.86
MOTA	895	CG2			39.008		126.739	1.00 28.38
MOTA	896	CG1				0.105	125.669	1.00 28.64
MOTA	897	CD1			37.938		130.578	1.00 31.36
ATOM	. 898	С	ILE A	114	39.239			1.00 24.56
MOTA	899	0	ILE A	114	38.898		131.291	
ATOM	900	N	GLU A	115	39.210		131.005	1.00 31.17
ATOM	901	CA	GLU A		38.750		7 132.358	1.00 32.12
	902	CB	GLU A		38.729	4.744	1 132.607	1.00 32.15
ATOM			GLU A	115	37.904	3.941	7 131.598	1.00 32.84
ATOM	903	CG			37.875	2 459	131.912	1.00 34.12
ATOM	904	CD				1 93	132.345	1.00 30.36
ATOM	905	OE:	GLU A	115	38.910	1.91	1 121 600	1.00 31.38
ATOM	906	OE2	GLU A	115.	36.826	1.82	7 131.699	1.00 31.65
ATOM	907	С	GLU A	115	39.675	6.93.	2 133.357	1.00 31.03
ATOM	908	0	GLU A	115	39.224	7.44	6 134.383	1.00 29.25
	909	Ŋ	GLU A		40.970	6.93	3 133.053	1.00 31.50
ATOM			GLU A		41.942	7.56	4 133.934	1.00 32.34
ATOM	910	CA			43.367		5 133.457	1.00 33.29
ATOM	911	CB	GLU A			F 94	2 133.633	
ATOM	-912	CG	GLU A		43.805	5.04	2 135.033	
ATOM	913	CD	GLU A	116	43.701	5.3/	8 135.079	
ATOM	914		1 GLU A	116	44.329	6.00	3 135.961	1.00 34.07
	915	OE			42.993		5 135.335	
ATOM	916	C C	GLU A		41.702	9.06	7 134.006	1.00 36.69
ATOM			GLU A		41.863	9.67	8 135.066	1.00 34.39
atom	917	0			41.317	9 66	1 132.881	
ATOM	918	N	PHE A			11.09		
ATOM	919	CA	PHE A		41.038	11.09		
ATOM	920	CB	PHE A		40.593	11.50	9 131.444	
ATOM	921	CG	PHE A	117	40.044	12.90	8 131.381	
	922	כה	1 PHE A	117	40.882	14.00	6 131.501	1.00 33.39
ATOM	923	CD	2 PHE A	117	38.675	13.12	3 131.225	1.00 38.90
ATOM		CD	1 PHE A	117	40.372	15.29	9 131.466	1.00 30.65
atom	924	CE	T - 1115 Y	'				

				1.00 36.50
	925 CE2 PHE A 117	38.153		
MOTA		39.003	15.501 131.310	1.00 35.41
MOTA	926 CZ PHE A 117			1.00 32.78
ATOM	927 C PHE A 117	39.908		
	928 O PHE A 117	39.966		1.00 29.82
MOTA		38.874	10.568 133.771	1.00 28.61
MOTA	929 N LEU A 118		10.751 134.632	1.00 32.00
MOTA	930 CA LEU A 118	• • •		1.00 29.19
		36.621	9.748 134.263	
MOTA		36.098	9.830 132.820	1.00 34.47
MOTA	932 CG LEU A 118		8.836 132.622	1.00 32.69
ATOM	933 CD1 LEU A-118	34.962	8.836 132.022	1.00 32.24
		35.612	11.240 132.522	
ATOM		38.123	10.590 136.094	1.00 31.17
ATOM	935 C LEU A 118		11.260 136.964	1.00 28.32
ATOM	936 O LEU A 118	37.576	11.280 130.304	1.00 27.23
		39.083	9.707 136.363	
MOTA		39.531	9.497 137.733	1.00 30.95
ATOM	938 CA LYS A 119		8.130 137.884	1.00 26.35
ATOM	939 CB LYS A 119	40.203		1.00 32.44
	940 CG LYS A 119	39.293	6.954 137.540	
MOTA		39.895	5.624 137.986	1.00 33.31
ATOM	941 CD LYS A 119		5.385 137.411	1.00 33.47
ATOM	942 CE LYS A 119	41.280	1.00 137.122	1.00 33.40
	943 NZ LYS A 119	41.874	4.102 137.904	
ATOM	110	40.493	10.594 138.173	1.00 32.65
MOTA		41.050	10.548 139.270	1.00 28.83
MOTA	945 O LYS A 119			1.00 33.77
	946 N GLY A 120	40.689		1 00 33 04
MOTA	100	41.571	12.677 137.652	1.00 33.84
MOTA		43.035	12.448 137.340	1.00 34.27
ATOM	948 C GLY A 120			1.00 36.80
ATOM	949 O GLY A 120	43.880		
	950 N ASN A 121	43.347	11.384 136.606	
ATOM		44.731	11.122 136.244	1.00 31.73
MOTA	951 CA ASN A 121		9.646 136.437	1.00 29.34
MOTA	952 CB ASN A 121	45.089		1.00 35.83
	953 CG ASN A 121	44.856	9.170 137.851	
MOTA		45.190	9.861 138.816	1.00 32.74
ATOM	954 OD1 ASN A 121		7.970 137.986	1.00 33.20
ATOM	955 ND2 ASN A 121	44.304		1.00 32.59
	956 C ASN A 121	44.954	11.506 134.790	
MOTA	101	44.031	11.952 134.110	1.00 34.69
MOTA			11:334 134.322	1.00 32.74
ATOM	958 N VAL A 122			1.00 33.59
	959 CA VAL A 122	46.540		1.00 36.05
ATOM	•		12.790 132.882	1.00 36.03
MOTA	- 100	47.884	13.121 131.438	1.00 37.58
MOTA	961 CG1 VAL A 122		14.021 133.602	1.00 37.19
MOTA	962 CG2 VAL A 122	47.029	14.021 133.002	1.00 34.47
	963 C VAL A 122	47.147	10.397 132.352	
ATOM	- 400	48.053	9.801 132.939	1.00 31.28
MOTA			9.989 131.196	1.00 28.06
MOTA	965 N ALA A 123		8.784 130.563	1.00 30.73
ATOM	966 CA ALA A 123	47.142	8.784 130.303	1.00 32.69
	967 CB ALA A 12	46.133	7.666 130.727	
MOTA			8.969 129.088	1.00 30.55
MOTA	968 C ALA A 12	·	9.830 128.406	1.00 32.89
MOTA	969 O ALA A 12	46.909	9.030 120.400	1.00 27.53
	970 N PHE A 12	48.380	8.136 128.613	
MOTA			8.157 127.229	1.00 26.56
MOTA	971 CA PHE A 12		8.660 127.157	1.00 25.32
MOTA	972 CB PHE A 12		8.544 125.793	1.00 27.84
	973 CG PHE A 12	50.903	8.544 123.733	1.00 27.01
MOTA			8.785 124.629	1.00 24.77
MOTA			8.266 125.686	1.00 21.79
MOTA	975 CD2 PHE A 12		8.753 123.385	
	976 CE1 PHE A 12	50.802		
ATOM		52.894	8.235 124.449	
ATOM			8.478 123.296	1.00 20.91
ATOM	978 CZ PHE A 12		6.749 126.675	1.00 21.13
ATOM	979 C PHE A 12	4 48.671	0.745 150.075	
	980 O PHE A 12	4 49.181	5.795 127.260	
ATOM	1 1	-	6.624 125.580	1.00 18.87
MOTA				1.00 25.05
ATOM	982 CA ASN A 12	-	7.5.	
	983 CB ASN A 12	5 46.271		
ATOM	1 3	5 46.073	3.784 123.856	
Mota			2.888 123.822	1.00 20.46
ATOM	985 OD1 ASN A 12			1.00 16.10
ATOM	986 ND2 ASN A 12	5 44.960		
	987 C ASN A 12	5 48.380	5.410 123.518	1.00 23.43
ATCM			5.749 122.542	
MOTA				3 1.00 24.55
ATCM	989 N PRO A 12	·	404 51	
	990 CD PRO A 12	6 50.589	4./30 124.71	
ATOM				

- mow	991	CA PRO A 126	50.413	5.130 122.160	1.00 22.39
ATOM ATOM		CB PEO A 126	51.829	4.751 122.594	1.00 18.20
ATOM		CG PRO A 126	51.564	3.849 123.798	1.00 25.43
ATOM		C PRO A 126	49.867	4.224 121.058	1.00 23.18
ATOM		O PRO A 126	50.173	4.436 119.893	1.00 20.12
ATOM		N ALA A 127	49.058	3.232 121.423	1.00 23.27
ATOM		CA ALA A 127	48.493	2.306 120.444	1.00 23.89
ATOM		CB ALA A 127	48.176	0.967 121.118	1.00 24.82
MOTA		C ALA A 127	47.241	2.864 119.778	1.00 24.76
MOTA	1000	O ALA A 127	46.806	2.360 118.745	1.00 28.99
ATOM		N GLY A 128	46.666	3.906 120.367	1.00 22.12
ATOM	1002	CA GLY A 128	45.461	4.494 119.809	1.00 21.43
ATOM	1003	C GLY A 128	45.732	5.521 118.725	1.00 23.55
ATOM	1004	O GLY A 128	46.875	5.695 118.291	1.00 23.25
ATOM	1005	N GLY A 129	44.680	6.199 118.283	1.00 18.03 1.00 24.99
ATOM	1006	CA GLY A 129	44.822	7.205 117.243	1.00 24.33
ATOM	1007	C GLY A 129	44.600	6.655 115.847	1.00 24.99
ATOM	1008	O GLY A 129	44.963	7.293 114.857 5.470 115.765	1.00 20.01
ATOM	1009	N MET A 130	44.002		1.00 23.63
ATOM	1010	CA MET A 130	43.729	4.825 114.481 3.361 114.744	1.00 22.77
ATOM	1011	CB MET A 130	43.360	2.661 115.563	1.00 26.30
ATOM	1012	CG MET A 130	44.455	0.913 115.989	1.00 26.57
ATOM	1013	SD MET A 130	44.198 42.665	1.030 116.936	1.00 27.59
MOTA	1014	CE MET A 130	42.580	5.617 113.869	1.00 23.70
MOTA	1015	C MET A 130	41.421	5.199 113.901	1.00 26.28
MOTA	1016	O MET A 130	42.926	6.766 113.294	1.00 20.66
MOTA	1017	N HIS A 131 CA HIS A 131	41.933	7.687 112.775	1.00 20.99
MOTA	1018		42.474	9.125 112.891	1.00 21.01
MOTA	1019	CB HIS A 131 CG HIS A 131	43.699	9.391 112.069	1.00 28.30
MOTA	1020 1021	CD2 HIS A 131	44.498	8.549 111.373	1.00 19.65
MOTA	1021	ND1 HIS A 131	44.246	10.649 111.917	1.00 27.76
MOTA	1022	CE1 HIS A 131	45.328	10.567 111.163	1.00 20.48
MOTA MOTA	1024	NE2 HIS A 131 ·	45.503	9.302 110.820	1.00 24.18
MOTA	1025	C HIS A 131	41.280	7.513 111.416	1.00 23.76
ATOM	1026	O HIS A 131	40.453	8.341 111.051	1.00 21.95
MOTA	1027	N HIS A 132	41.600	6.449 110.682	1.00 25.12
MOTA	1028	CA HIS A 132	41.006	6.257 109.354	1.00 23.32 1.00 17.87
ATOM	1029	CB HIS A 132	42.060	5.715 108.388	1.00 17.87
MOTA	1030	CG HIS A 132	43.148	6.689 108.072 6.574 108.144	1.00 21.72
MOTA	1031	CD2 HIS A 132	44.496	7.944 107.556	1.00 13.58
MOTA	1032	ND1 HIS A 132	42.896	8.558 107.323	1.00 15.41
MOTA	1033	CE1 HIS A 132	44.044 45.028	7.748 107.668	1.00 15.27
MOTA	1034	NE2 HIS A 132	39.752	5.386 109.208	1.00 23.38
MOTA	1035	C HIS A 132	38.947	5.615 108.304	1 00 24.70
MOTA	1036	O HIS A 132	39.587	4.388 110.070	1.00 23.34
MOTA	1037	N ALA A 133 CA ALA A 133	38.453	3.471 109.953	1 00 23.77
MOTA	1038	CA ALA A 133 CB ALA A 133	38.515	2.417 111.053	1.00 27.49
ATOM	1039 1040	C ALA A 133	.37.093	4.145 109.966	1.00 23.02
ATOM	1040	O ALA A 133	36.878	5.117 110.691	1.00 25.98
ATOM ATOM	1042	N PHE A 134	36.179	3.633 109.148	1.00 18.90
ATOM	1043	CA PHE A 134	34.831	4.173 109.103	1.00 23.73
MOTA	1044	CB PHE A 134	34.317	4.296 107.663	1.00 24.29
ATOM	1045	CG PHE A 134	35.119	5.225 106.801	
ATOM	1046	CD1 PHE A 134	36.025	4.724 105.867	
ATOM	1047	CD2 PHE A 134	34.975	6.605 106.921	
ATOM	1048	CE1 PHE A 134	36.775	5.582 105.063	
ATOM	1049	CE2 PHE A 134	35.724	7.479 106.119	
ATOM	1050	CZ PHE A 134	36.623	6.967 105.188	
ATOM	1051	C PHE A 134	33.894	3.260 109.884 2.172 110.319	
ATOM	1052	O PHE A 134	34.270		
MOTA	1053	N LYS A 135	32.670	3.728 110.062 2.984 110.765	
ATCM	1054	CA LYS A 135	31.638	3.628 110.429	
ATOM	1055	CB LYS A 135	30.294	2.779 110.667	
ATOM	1056	CG LYS A 135	29.072	2.119 120.001	

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1057 CD LYS A 135 1058 CE LYS A 135 1059 NZ LYS A 135 1060 C LYS A 135 1061 O LYS A 135 1062 N SER A 136 1063 CA SER A 136 1064 CB SER A 136 1065 OG SER A 136 1066 C SER A 136 1067 O SER A 136 1068 N ARG A 137 1070 CB ARG A 137 1071 CG ARG A 137 1071 CG ARG A 137 1071 CG ARG A 137 1072 CD ARG A 137 1073 NE ARG A 137 1074 CZ ARG A 137 1075 NH1 ARG A 137 1076 NH2 ARG A 137 1077 C ARG A 137 1078 O ARG A 137 1079 N ALA A 138 1080 CA ALA A 138 1080 CA ALA A 138 1081 CB ALA A 138 1082 C ALA A 138 1083 O ALA A 138 1084 N ASN A 139 1085 CA ASN A 139 1086 CB ASN A 139 1087 CG ASN A 139 1088 OD1 ASN A 139 1089 ND2 ASN A 139 1089 ND2 ASN A 139 1089 CG ASN A 139 1090 C ASN A 139 1091 O ASN A 139 1092 N GLY A 140 1094 C GLY A 140 1095 O GLY A 140 1096 N PHE A 141 1097 CA PHE A 141 1098 CB PHE A 141 1101 CD2 PHE A 141 1102 CEI PHE A 141 1103 CE2 PHE A 141 1104 CZ PHE A 141 1105 C PHE A 141 1106 O PHE A 141 1107 N CYS A 142 1110 CCYS A 142 1111 C CYS A 142	30.172 29.146 32.608 32.350 33.788 34.456 35.3797 34.456 35.3792 36.389 36.399 36.350 37.166 38.560 39.612 40.685 40.7050 40.7050 40.7050 42.244 44.200 45.606 45.679 47.994 47.995 47.994	3.683 111.072 1.00 27.62 0.205 110.233 1.00 24.20 0.307 109.272 1.00 24.12 -0.663 111.219 1.00 23.84 -1.546 111.236 1.00 26.07 -2.958 111.680 1.00 27.89 -3.582 110.855 1.00 27.30	
	1111 C CYS A 142	41.694		
	1112 O CYS A 142	40.932		
	1113 N TYR A 143	41.498	1 20 26 07	
	1114 CA TYR A 143	40.335	2.2.0	
	1115 CB TYR A 143	40.728		
ATOM	1116 CG TYR A 143	41.829	-3 329 111,137 1,00 25.76	
ATOM	1117 CD1 TYR A 143	43.169	3 875 110.346 1.00 25.77	
ATOM	1118 CE1 TYR A 143	44.185 41.526	4 394 109.762 1.00 25.87	
ATOM	1119 CD2 TYR A 143		_4 941 108.967 1.00 23.10	
ATOM	1120 CE2 TYR A 143		-4.679 109.262 1.00 22.93	
ATCM	1121 CZ TYR A 143 1122 OH TYR A 143		100 476 1 00 20 64	
ATOM	1122 OH TYR A 143	44.04.	· · · · · · · · · · · · · · · · · · ·	

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	1123	c 1	ryr A	143		39.281	-0.991	112.193	1.00 24.56
MOTA MOTA	1124		TYR A			38.085	-1.030	111.905	1.00 24.88
ATOM	1125		ILE A			39.734		113.331	1.00 23.77
ATOM	1126		ILE A			38.833		114.335	1.00 27.11
ATOM	1127		ILE A	144		38.871	-0.729	115.643	1.00 24.56 1.00 23.47
ATOM	1128		ILE A			37.941		116.690	1.00 23.47
MOTA	1129		ILE A			38.430	-2.169	115.346 116.539	1.00 28.70
ATOM	1130		ILE A			38.535	-3.113		1.00 24.15
MOTA	1131		ILE A			39.248	1.550 1.843	114.800	1.00 24.42
MOTA	1132		ILE A			40.428 38.277	2.453	114.669	1.00 22.04
ATOM .	1133		ASN A			38.555	3.866	114.920	1.00 21.31
ATOM	1134		ASN A ASN A			37.559	4.732	114.133	1.00 18.87
MOTA	1135 1136		ASN A			37.956		114.091	1.00 22.21
ATOM	1137		ASN A			38.223	6.823	115.124	1.00 22.47
ATOM ATOM	1138		ASN A			37.978	6.776	112.892	1.00 23.78
ATOM	1139		ASN A			38.417	4.141	116.418	1.00 22.63 1.00 22.45
ATOM	1140	0	ASN A	145		37.338	4.535	116.880	1.00 22.43
ATOM	1141		ASN A			39.495		117.178 118.628	1.00 23.57
MOTA	1142		ASN A			39.423	3 679	119.320	1.00 19.80
MOTA	1143		ASN A			40.708 41.924		118.967	1.00 27.81
MOTA	1144		ASN A			42.299		119.704	1.00 19.55
ATOM	1145		ASN A			42.544		117.827	1.00 19.55
ATOM	1146		ASN A			39.079		119.023	1.00 26.32
ATOM	1147 1148		ASN A			38.452	5.827	120.059	1.00 28.34
ATOM	1149	N	PRO A			39.512		118.231	1.00 28.46
ATOM ATOM	1150	CD	PRO A			40.383		117.042	1.00 27.18
ATOM	1151	CA	PRO 2	147		39.150		118.618	1.00 24.15 1.00 25.13
ATOM	1152	CB	PRO A			39.859		117.558	1.00 30.05
MOTA	1153	CG		147		41.081	0 136	117.233	1.00 26.71
MOTA	1154	Ç		A 147		37.618 37.017	8 760	119.456	1.00 24.93
ATOM	1155	0		147		36.989	7:557	117.562	1.00 21.42
MOTA	1156	N		A 148 A 148		35.536	7.633	117.416	1.00 21.03
MOTA	1157 1158	CA CB		A 148		35.112	7.044	116.072	1.00 19.98
ATOM ATOM	1159	C		A 148		34.838		118.552	1.00 20.49
ATOM	1160	ō		A 148		33.822		119.067	1.00 21.44 1.00 19.20
ATOM	1161	N		A 149		35.381		118.928	1.00 19.20
ATOM	1162	CA		A 149		34.818	4.950	0 120.016 8 120.181	1.00 25.96
ATOM	1163	CB		A 149		35.570	2.000	B 121.485	1.00 26.58
ATOM	1164	CG1		A 149		35.158 35.262	2.70	4 118.995	1.00 25.67
ATOM	1165	CG2		A 149		34.947		2 121.304	1.00 23.56
MOTA	1166	C		A 149 A 149		33.990	5.88	7 122.064	1.00 22.52
ATOM	1167 1168	О И	GLY	A 150		36.143	6.28	7 121.536	1.00 24.65
ATOM ATOM	1169	CA	GLY	A 150		36.390	7.07	4 122.731	1.00 22.82
MOTA	1170	C	GLY	A 150		35.477		1 122.838	1.00 25.46 1.00 23.17
ATOM	1171	0	GLY	A 150		34.919		4 123.904	
ATCM	1172	N		A 151		35.327		1 121.733 0 121.716	
ATOM	1173	CA		A 151		34.481 34.610		8 120.371	
ATOM	1174	CB		A 151		33.598			
ATOM	1175	CG2	ILE	A 151		36.041	11.46		1.00 28.02
ATOM	1176	CG1	TIE	A 151 A 151		36.354			1.00 27.10
ATOM	1177	CD1 C		A 151		33.018		6 121.987	
ATOM	1178 1179			A 151		32.337	10.48		
ATOM ATOM	1180			À 152		32.532			
ATOM	1181		GLU	A 152		31.149		4 121.601	1.00 30.07
ATOM	1182		GLU	A 152		30.758		1 120.672 13 119.194	
ATOM	1183	CG	GLU	A 152		30.609	7.54 5 8.50		
ATOM	1184	CD	GLU	A 152		29.455		7 117.77	
MOTA	1185		GLU	A 152		29.139 28.862			3 1.00 34.73
ATOM	1186		GLU	A 152		31.009		9 123.05	5 1.00 28.00
ATCM	1187		GLU	A 152		29.98		6 123.68	
ATOM	1188	3 0	GLU	A 152		27.50			

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3 0001	1189	N	TYR A 153		32.054	7.253	123.583	1.00 28.72
MOTA		CA	TYR A 153		32.066	6.805	124.971	1.00 31.35
MOTA	1190		TYR A 153		33.427			1.00 31.56
ATOM	1191	CB			33.617			1.00 33.17
MOTA	1192	CG	TYR A 153				127.280	1.00 35.43
MOTA	1193	CD1	TYR A 153		33.111		128.619	1.00 33.52
ATOM	1194	CEl	TYR A 153		33.321			1.00 34.29
ATOM	1195	CD2	TYR A 153		34.329		127.611	1.00 35.34
ATOM	1196	CE2	TYR A 153		34.544		128.944	
	1197	CZ	TYR A 153		34.041		129.444	1.00 37.50
ATOM	1198	OH	TYR A 153	-	34.260		130.767	1.00 30.10
ATOM	1199	c	TYR A 153		31.828	8.022	125.857	1.00 32.71
ATOM		0	TYR A 153		31.026	7.988	126.787	1.00 29.14
ATOM	1200	N	LEU A 154		32.538	9.102	125.552	1.00 29.65
MOTA	1201		LEU A 154		32.413	10.332	126.310	1.00 32.87
MOTA	1202	CA	LEU A 154		33.477	11.329	125.847	1.00 31.46
MOTA	1203	CB	LEU A 154		34.910	11.053	126.324	1.00 29.68
MOTA	1204	CG			35.898	11.953	125.605	1.00 29.29
MOTA	1205	CD1	LEU A 154		34.989	11.278	127.829	1.00 27.19
ATOM	1206		LEU A 154		31.020	10.952	126.232	1.00 34.63
MOTA	1207	С	LEU A 154			11.379	127.250	1.00 32.58
MOTA	1208	0	LEU A 154		30.475	10.999	125.035	1.00 36.63
MOTA	1209	N	ARG A 155		30.443		124.869	1.00 38.36
ATOM	1210	CA	ARG A 155		29.107	11.569	123.405	1.00 36.32
ATOM	1211	CB	ARG A 155		28.661	11.502		1.00 43.15
ATOM	1212	CG	ARG A 155		29.581	12.253	122.460	
ATOM	1213	CD	ARG A 155		29.100	12.201		
ATOM	1214	NE	ARG A 155		27.936	13.047		1.00 44.00
ATOM	1215	CZ	ARG A 155		27.331	13.140		1.00 54.07
	1216	NH1			27.772	12.441		1.00 51.61
MOTA MOTA	1217	NH2			26.291	13.948		1.00 51.76
	1218	С	ARG A 155		28.112	10.821	125.745	1.00 36.25
ATOM	1219	Ö	ARG A 155		27.270	11.433		1.00 39.00
MOTA		И	LYS A 156		28.213	9.496	125.765	1.00 36.48
ATOM	1220		LYS A 156		27.315	8.698	126.587	1.00 39.06
MOTA	1221	CA	LYS A 156		27.460	7.213	126.256	1.00 41.88
MOTA	1222	CB	LYS A 156		26.672	6.816	125.020	1.00 51.15
MOTA	1223	CG	LYS A 156		27.169	7.505		1.00 55.56
MOTA	1224	CD	LYS A 156		26.117	7.502		1.00 55.63
MOTA	1225	CE	LYS A 156		24.993	8.425		1.00 49.15
ATOM	1226	NZ			27.527	8.932		1.00 39.91
MOTA	1227	C	LYS A 156		26.636	8.658		1.00 37.01
ATOM	1228	0	LYS A 156		28.703	9.431		1.00 37.73
MOTA	1229	N	LYS A 157		28.985	9.72		1.00 36.52
MOTA	1230	CA	LYS A 157		30.493	9.700		1.00 35.64
MOTA	1231	CB	LYS A 157			9.700	8 130.174	1.00 35.44
MOTA	1232	CG	LYS A 157		31.094	7 510	131.335	1.00 31.28
MOTA	1233	CD	LYS A 157		30.509	7.31	6 131.388	1.00 31.48
MOTA	1234	CE	LYS A 157		31.077	5.10	0 132.493	1.00 36.39
MOTA	1235	NZ	LYS A 157		30.464	5.31	7 130.197	1.00 38.12
ATOM	1236	С	LYS A 157		28.423	11.09	7 130.137	1.00 37.61
MOTA	1237	0	LYS A 157		28.531	11.54	7 131.336	1.00 36.27
ATOM	1238	N	GLY A 158		27.842	11.76	8 129.205	
MOTA	1239	CA	GLY A 158		27.257	13.07	4 129.452	
ATOM	1240	С	GLY A 158		27.972	14.29	3 128.894	
ATOM	1241	ō	GLY A 158		27.438		9 128.963	1.00 32.96
	1242	N	PHE A 159		29.170	14.11	7 128.344	1.00 33.89
ATOM	1243	CA	PHE A 159		29.892	15.26	0 127.796	1.00 30.29
ATOM	1244	CB	PHE A 159		31.346	14.89	2 127.504	1.00 28.62
ATOM			PHE A 159		32.137	14.55	5 128.730	1.00 28.80
MOTA	1245				32.043	13.30	0 129.310	1.00 30.41
MOTA	1246				32.951		3 129.327	1.00 29.37
ATOM	1247				32.749		6 130.472	1.00 34.42
ATOM	1248	CE			33.661	15.22	3 130.488	1.00 31.10
MOTA	1249	CE			33.561		3 131.062	1.00 32.32
ATOM	1250		PHE A 159		29.224		6 126.536	1.00 28.88
ATOM	1251		PHE A 159					
ATOM	1252		PHE A 159		28.765		0 126.402	
. ATCM	1253		LYS A 160		29.180		6 125.25	
ATOM	1254	CA	LYS A 160		28.550	1 11.70	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

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ATOM	1255	CB LYS A 160	27.390		1.00 36.87 1.00 39.48
ATOM	1256	CG LYS A 160	26.273	17.914 126.419 18.850 126.723	1.00 48.58
MOTA	1257	CD LYS A 160	25.105	18.850 126.723 20.003 127.651	1.00 50.81
ATOM	1258	CE LYS A 160	25.500	19.534 129.008	1.00 49.79
MOTA	1259	NZ LYS A 160	25.924 29.484	18.616 124.394	1.00 32.59
MOTA	1260	C LYS A 160	29.484	19.085 123.327	1.00 30.98
MOTA	1261	O LYS A 160	30.700	18.846 124.867	1.00 31.43
MOTA	1262	N ARG A 161	31.665	19.626 124.108	1.00 29.97
ATOM	1263	CA ARG A 161 CB ARG A 161	31.781	21.048 124.673	1.00 34.45
MOTA	1264		30.476	21.854 124.610	1.00 37.63
ATOM	1265 1266	CG ARG A 161 CD ARG A 161	30.705	23.321 124.966	1.00 39.01
MOTA MOTA	1267	NE ARG A 161	31.158	23.503 126.341	1.00 43.76
ATOM	1268	CZ ARG A 161	30.389	23.337 127.414	1.00 43.33
MOTA	1269	NH1 ARG A 161	29.117	22.985 127.274	1.00 45.95 1.00 43.74
MOTA	1270	NH2 ARG A 161	30.893	23.518 128.627	1.00 43.74
ATOM	1271	C ARG A 161	33.009	18.910 124.161 19.090 125.092	1.00 28.53
MOTA	1272	O ARG A 161	33.792 33.257	18.087 123.149	1.00 32.50
MOTA	1273	N ILE A 162	34.485	17.313 123.049	1.00 28.52
MOTA	1274	CA ILE A 162	34.146	15.821 122.820	1.00 31.42
ATOM	1275	CB ILE A 162 CG2 ILE A 162	35.407	14.976 122.898	1.00 24.95
MOTA	1276 1277	CG2 ILE A 162 CG1 ILE A 162	33.147	15.355 123.879	1.00 30.25
MOTA	1277	CD1 ILE A 162	32.564	13.977 123.635	1.00 34.27
MOTA MOTA	1279	C ILE A 162	35.353	17.816 121.886	1.00 26.46
ATOM	1280	O ILE A 162	34.876	17.973 120.762	1.00 27.88
ATOM	1281	N LEU A 163	36.626	18.067 122.168	1.00 23.13
MOTA	1282	CA LEU A 163	37.575	18.534 121.156 19.729 121.681	1.00 26.25
MOTA	1283	CB LEU A 163	38.384 39.626	20.138 120.862	1.00 24.39
MOTA	1284	CG LEU A 163	39.213	20.591 119.473	1.00 26.25
MOTA	1285	CD1 LEU A 163 CD2 LEU A 163	40.361	21.252 121.560	1.00 27.76
MOTA	1286	CD2 LEU A 163 C LEU A 163	38.547	17.416 120.792	1.00 27.09
MOTA	1287 1288	O LEU A 163	39.053	16.721 121.674	1.00 25.25
ATOM ATOM	1289	N TYR A 164	38.808	17.257 119.496	1.00 26.97
ATOM	1290	CA TYR A 164	39.747	16.241 119.010	1.00 26.97 1.00 23.38
MOTA	1291	CB TYR A 164	39.021	15.181 118.179 14.146 117.565	1.00 23.38
MOTA	1292	CG TYR A 164	39.944	14.146 117.565 13.179 118.353	1.00 22.49
MOTA	1293	CD1 TYR A 164	40.563 41.419	12.224 117.794	1.00 22.90
ATOM	1294	CE1 TYR A 164	40.202	14.142 116.194	1.00 18.74
MOTA	1295	CD2 TYR A 164 CE2 TYR A 164	41.060	13.190 115.616	1.00 23.36
MOTA	1296 1297	CE2 TYR A 164 CZ TYR A 164	41.663	12.235 116.426	1.00 21.50
MOTA	1298	OH TYR A 164	42.506	11.296 115.878	1.00 18.41
atom atom	1299	C TYR A 164	40.798	16.923 118.138	1.00 21.67
ATOM	1300	O TYR A 164	40.473	17.511 117.112	1.00 19.75 1.00 25.61
ATOM	1301	N ILE A 165	42.057	16.843 118.551	1.00 24:43
ATOM	1302	CA ILE A 165	43.149	17.462 117.804 18.396 118.717	1.00 26.41
MOTA	1303	CB ILE A 165	43.963		1.00 19.36
MOTA	1304	CG2 ILE A 165	45.127 43.035		
ATOM	1305	CG1 ILE A 165	43.685		1.00 25.05
ATOM	1306	CD1 ILE A 165 C ILE A 165	44.040		1.00 26.91
ATOM	1307 1308	O ILE A 165	44.538	15.505 117.971	1.00 21.91
ATOM	1309	N ASP A 166	44.242	16.408 115.920	1.00 24.20
MOTA ATOM	1310	CA ASP A 166	45.022		1.00 27.11
ATOM	1311	CB ASP A 166	44.140	14.765 114.137	1.00 28.56 1.00 34.59
ATOM	1312	CG ASP A 166	44.699		
ATOM	1313	OD1 ASP A 166	45.831		
ATOM	1314		43.995 46.319		
ATOM	1315		46.295		1.00 23.19
ATCM	1316		47.452		1.00 23.43
atom	1317		48.738	3 16.068 114.722	1.00 24.67
ATOM	1318			16.382 115.887	1.00 21.90
ATOM	1319 1320				1.00 26.62
atom	1320	, to LEO A TO!	• • • •		

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50.249 17.845 117.821 1.00 25.88
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MOTA
       1321
                                                          1.00 22.40
                                         18.668 116.092
                                 48.658
             CD2 LEU A 167
       1322
MOTA
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                                 49.405
                  LEU A 167
             C
                                                           1.00 21.89
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                  LEU A 167
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ATOM
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                  ASP A 168
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MOTA
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                 ASP A 168
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              CA
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                                 48.209
                 ASP A 168
       1327
              CB
MOTA
                                                          1.00 28.11
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                 ASP A 168
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                                                          1.00 24.17
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                  ASP A 168
       1329
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       1331
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                                  48.777
              OD2 ASP A 168
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13.927 109.140 1.00 25.00
ATOM
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                  ALA A 169
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ATOM
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              CA ALA A 169
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ATOM
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                                                           1.00 26.57
MOTA
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                  ALA A 169
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                                                           1.00 26.90
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                  HIS A 170
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MOTA
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              ND1 HIS A 170
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 MOTA
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              CD2 HIS A 170
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                                  50.502
              NE2 HIS A 170
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                  HIS A 171
HIS A 171
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                                           14.242 106.404
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 MOTA
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                                           14.201 106.160
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              ND1 HIS A 171
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                                                            1.00 26.52
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                   CYS A 172
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 ATOM
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                   CYS A 172
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 MOTA
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               OD1 ASP A 173
                                                            1.00 30.04
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                                   38.309
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                    GLY A 174
                                    37.344
               CA
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                                             9.296 110.619
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                    GLY A 174
                                                             1.00 21.39
1.00 27.24
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               0
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                    VAL A 175
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12.105 114.566
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35.682 15.349 108.469
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                    GLN A 176
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                CG
   ATOM
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ATOM	1387	CD GLN A 176	3	6.385	16.002		1.00 29.54
ATOM	1388	OE1 GLN A 176		7.382	15.704	107.486	1.00 26.93
ATOM	1389	NE2 GLN A 176	_	_		106.099	1.00 27.58 1.00 27.63
ATCM	1390	C GLN A 176				110.029	1.00 27.03
MOTA	1391	O GLN A 176		3.481	14.021	110.319 109.362	1.00 23.33
ATOM	1392	N GLU A 177		34.330 33.027	12.1/3	109.302	1.00 32.72
MOTA	1393	CA GLU A 177		3.181	10.445	108.053	1.00 34.20
MOTA	1394	CB GLU A 177 CG GLU A 177		31.905	10.069	107.329	1.00 39.40
MOTA	1395 1396	CD GLU A 177		2.060	8.819	106.497	1.00 41.42
MOTA MOTA	1397	OE1 GLU A 177		32.056	7.712	107.075	1.00 45.91
ATOM	1398	OE2 GLU A 177		32.206		105.264	1.00 42.35 1.00 30.54
MOTA	1399	C GLU A 177		32.128		110.099 110.093	1.00 30.34
ATOM	1400	O GLU A 177		30.945		111.114	1.00 27.03
MOTA	1401	N ALA A 178		32.707 31.971		112.303	1.00 30.67
MOTA	1402	CA ALA A 178 CB ALA A 178		32.905	9.658	113.289	1.00 30.49
ATOM	1403 1404	CB ALA A 178 C ALA A 178		31.261	11.519	113.003	1.00 33.21
MOTA MOTA	1405	O ALA A 178		30.145		113.493	1.00 28.64
ATOM	1406	N PHE A 179		31.888	12.688	113.055	1.00 29.27 1.00 30.49
ATOM	1407	CA PHE A 179		31.256		113.751	1.00 30.49
ATOM	1408	CB PHE A 179		32.071 32.469		115.001 115.781	1.00 24.43
MOTA	1409	CG PHE A 179		32.409		115.657	1.00 25.04
MOTA	1410	CD1 PHE A 179 CD2 PHE A 179		31.536	12.233	116.563	1.00 23.09
ATOM	1411 1412	CD2 PHE A 179 CE1 PHE A 179		34.103	11.184	116.293	1.00 16.56
MOTA MOTA	1413	CE2 PHE A 179		31.881	11.038	117.204	1.00 26.38
MOTA	1414	CZ PHE A 179		33.170	10.515	117.067	1.00 20.30 1.00 31.00
ATOM	1415	C PHE A 179		31.079		112.891 113.399	1.00 31.32
MOTA	1416	O PHE A 179		31.006 30.980	16.152 14.828		1.00 31.68
MOTA	1417	N TYR A 180		30.829	15.925	110.646	1.00 32.76
ATOM	1418	CA TYR A 180 CB TYR A 180		30.931	15.378	109.213	1.00 35.12
ATOM	1419 1420	CB TYR A 180		31.331	16:406	108.172	1.00 36.27
ATOM ATOM	1421	CD1 TYR A 180		30.427	16.846	107.204	1.00 37.31 1.00 34.81
ATOM	1422	CE1 TYR A 180		30.801		106.244 108.154	1.00 34.81
ATOM	1423	CD2 TYR A 180		32.624	16.937 17.879		1.00 37.83
MOTA	1424	CE2 TYR A 180		33.00 7 32.088	18.304		1.00 36.05
ATOM	1425	CZ TYR A 180 OH TYR A 180		32.446	19.255	105.323	1.00 28.04
ATOM	1426 1427	OH TYR A 180		29.518	16.696	110.825	1.00 30.94
MOTA ATOM	1428	O TYR A 180)	29.459	17.894	110.560	1.00 30.42
ATOM	1429	N ASP A 181			16.026	111.299	1.00 31.56 1.00 37.30
ATOM	1430	CA ASP A 181	•	27.180	16.671	111.444	1.00 37.68
ATOM	1431	CB ASP A 18		26.086 25.645	14 689	111.705	
ATOM	1432	OD1 ASP A 18:	•	26.505	13.963	112.233	1.00 43.25
ATOM	1433 1434	OD2 ASP A 18	• L	24.425	14.504	111.871	1.00 46.56
atom atom	1435	C ASP A 18		26.754	17.044	112.866	1.00 36.81
ATOM	1436	0 ASP A 18	L	25.571	17.286	113.109	1.00 33.91 1.00 40.86
ATOM	1437	N THR A 18	2	27.689	17.066	5 113.810 2 115.184	
ATOM	1438	CA THR A 18	2	27.327	16 201	116.133	
ATCM	1439	CB THR A 18	2	27.433 27.013	16.59	117.448	1.00 35.64
ATOM	1440	OG1 THR A 18	2	28.869		116.194	1.00 35.61
MOTA	1441 1442	CG2 THR A 18 C THR A 18	2	28.177	18.54	6 115.746	1.00 39.51
atom atom	1442	O THR A 18		29.365	18.67	3 115.433	1.00 40.07
ATOM	1444	M ASP A 18	3	27.557	19.36	9 116.582	1.00 37.01 1.00 37.74
ATOM	1445	CA ASP A 18	3	28,250		7 117.181 6 117.228	
ATOM	1446	CB ASP A 18	3	27.313			1.00 38.01
ATOM	1447		3	26.136 25.614		7 118.210	1.00 34.94
ATOM	1448		<i>ુ</i> ર	25.720		0 118.814	1.00 38.17
ATOM	1449		3	28.762	20.16	1 118:578	1.00 35.27
ATCM	1450 1451		3	29.337	21.01	5 119.251	1.00 35.16
atom atom	1452		4	28.562	18.91	7 119.012	1.00 35.10
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CG2 VAL A 185
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                     HIS A 191
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   ATOM
                      GLN A 192
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ATOM

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ATOM	1519	CA	GLN A 192		49.718	16.950	104.412	1.00 20.55
ATOM	1520	-	GLN A 192		50.474	15.738	103.864	1.00 23.63
ATOM	1521	CG	GLN A 192		51.528	15.181	104.797	1.00 24.07
ATOM	1522	CD	GLN A 192		52.110		104.293	1.00 26.90
ATOM	1523		GLM A 192		52.986		103.421	1.00 20.21
MOTA	1524		GLN A 192		51.605		104.828	1.00 23.52
MOTA	1525	С	GLN A 192		48.478	17.174	103.570	1.00 21.41
ATOM	1526	0	GLN A 192		47.478	16.466	103.726	1.00 20.15
MOTA	1527	N	SER A 193		48.528	18.167	102.692	1.00 24.36
ATOM	1528	CA	SER A 193		47.397	18.448	101.821	1.00 23.98
MOTA	1529	CB	SER A 193		47.760	19.537	100.820	1.00 24.60
ATOM	1530	OG	SER A 193		46.729	19.660	99.861	1.00 25.83 1.00 23.74
MOTA	1531	С	SER A 193		46.985		101.045	1.00 23.74
ATOM	1532	0	SER A 193		47.829	16.492	100.506 100.953	1.00 24.85
ATOM	1533	N	PRO A 194		45.674	.16.936 17.719	101.507	1.00 25.08
MOTA	1534	CD	PRO A 194		44.561 45.151	15.772	100.235	1.00 29.25
MOTA	1535	CA	PRO A 194		43.51	15.901	100.444	1.00 30.51
MOTA	1536	CB	PRO A 194 PRC A 194		43.554	16.643	101.758	1.00 30.21
ATOM	1537	CG C	PRO A 194		45.527	15.825	98.756	1.00 30.75
MOTA	1538 1539	0	PRO A 194		45.420	14.830	98.041	1.00 30.04
ATOM	1540	И	GLU A 195		45.967	16.991	98.298	1.00 26.28
MOTA MOTA	1541	CA	GLU A 195		46.343	17.127	96.898	1.00 31.11
ATOM	1542	СВ	GLU A 195		46.738	18.570	96.571	1.00 29.52
MOTA	1543	CG	GLU A 195		45.680	19.600	96.933	1.00 38.32
ATOM	1544	CD	GLU A 195		45.976	20.972	96.352	1.00 44.15
ATOM	1545	OE1	GLU A 195		47.139	21.425	96.434	1.00 44.23 1.00 45.06
MOTA	1546	OE2	GLU A 195		45.037	21.605	95.825 96.552	1.00 45.00
MOTA	1547	C	GLU A 195		47.499	16.193 15.705		1.00 37.17
MOTA	1548	0	GLU A 195		47.582 48.377	15.703		1.00 25.01
MOTA	1549	N	TYR A 196		49.517	15.053		1.00 23.43
MOTA	1550	CA	TYR A 196 TYR A 196		50.810	15.881		1.00 26.67
MOTA	1551 1552	CB CG	TYR A 196		51.255	16.424		1.00 26.78
ATOM	1553	CD1			51.957	15.625	99.476	1.00 26.08
MOTA MOTA	1554	CE1	TYR A 196		52.338	16.110		1.00 26.77
ATOM	1555	CD2			50.944	17.731		1.00 27.55
MOTA	1556	CE2			51.320	18.226		1.00 25.95
ATOM	1557	CZ	TYR A 196		52.012	17.409		1.00 24.78 1.00 25.50
ATOM	1558	OH	TYR A 196		52.356	17.879 13.906		1.00 27.05
MOTA	1559	C	TYR A 196		49.670	13.900		1.00 24.02
MOTA	1560	0	TYR A 196		50.585 48.785	13.822		1.00 22.10
ATOM	1561	N	ALA A 197		48.928	12.760		1.00 24.90
MOTA	1562	CA	ALA A 197 ALA A 197		49.627		101.437	1.00 27.83
ATOM	1563 1534	CB C	ALA A 197		47.644	12.069	100.608	1.00 26.20
MOTA MOTA	1: 65	Ö	ALA A 197		46.553	12.617	7 100.484	1.00 22.82
ATOM	1536	N	PHE A 198		47.795	10.849		1.00 31.74
ATOM	1567	CA	PHE A 198		46.663	10.072	2 101.580	1.00 28.74
ATOM	1568	CB	PHE A 198		47.130		102.036	1.00 30.66
ATOM	1569	CG	PHE A 198		46.009		5 102.399	1.00 29.61
ATOM	1570		. PHE A 198		45.496		101.463	1.00 28.43
MOTA	1571		PHE A 198		45.426	/.824	2 103.657 7 101.773	1.00 28.43
ATOM	1572		PHE A 198		44.415	7 00	4 103.970	
MOTA	1573	CE2	PHE A 198		44.340 43.837	6 12	1 103.029	
ATOM	1574	CZ	PHE A 198		46.121	10 814	4 102.802	
MOTA	1575	C	PHE A 198		46.121	11.34		
ATOM	1576	O N	PHE A 198		44.792	10.90		1.00 28.27
ATOM	1577	СЭ М	FRO A 199		14.100	11.49		1.00 33.97
ATOM	1578 1579	CY	PRO A 199		43.313	10.36		1.00 32.80
ATOM	1580	CB	FRO A 199		42.550	10.31	2 102.858	
atom atom	1581	CG	PRO A 199		42.665	11.61		
ATOM	1582	c	PRO A 199		43.773	11.47		
ATOM	1583	0	FRO A 199		44.052	12.63	1 101.280	
ATOM	1584	N	PHE A 200)	43.441	11.15	6 99.734	1.00 33.04

ATOM 1585 CA PHE A 200 43.927 11.579 97.411 1.00 26.69 ATOM 1586 CB PHE A 200 45.226 10.833 97.561 1.00 27.33 ATOM 1588 CD1 PHE A 200 45.239 9.510 97.995 1.00 29.79 ATOM 1589 CD2 PHE A 200 46.439 11.461 97.302 1.00 24.38 ATOM 1590 CE1 PHE A 200 46.444 8.820 98.168 1.00 29.45 ATOM 1591 CE2 PHE A 200 47.651 10.782 97.473 1.00 31.41 ATOM 1592 CZ PHE A 200 47.653 9.458 97.906 1.00 29.64 ATOM 1593 C PHE A 200 42.042 12.795 98.518 1.00 26.15 ATOM 1593 C PHE A 200 41.935 13.889 97.986 1.00 27.96						,				
ATOM 1648 CG GLU A 207 37.182 17.751 103.022 1.00 33.85 ATOM 1649 CD GLU A 207 37.487 17.025 103.995 1.00 33.22	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	15878890123456789012315599012315990123155990123155990123155990123155990123155990123155990123155990123155990123155990123155990123155990123155990123155990125990000000000	CG 1212 CB CD212 CB CCC C O N C C C C C O N C C C C C C O N C C C C	PHE A 2000 PHE A 2001 PHE A 2002 PHE A 2004	7.7.7	43.9276 45.2399 46.439 46.444 47.653 46.9352 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.939.6939 41.410.693 41.410.6	11.579 10.833 11.8202 11.4610 10.513 10.458 11.2458 12.5346 11.253	97.411 97.561 97.302 98.168 97.302 98.168 97.995 98.168 97.998 98.818 97.986 98.818 97.828 97.828 99.592 102.992 103.278 103.2761 103.2761 104.29 104.29 105.968 98.818 99.618 99.618 99.618 99.618 104.278 103.992 103.278 103.378 103.992 104.29 104.29 105.968 98.977 99.618 98.977 99.618 99.618 99.618 97.7231 104.479 77.751 104.903 99.618 99.618 97.751 104.903 98.903 98.903 98.903 98.903 98.903 98.903 98.903 98.903 98.903 98.903 98.903 98.903 98.903 98.903 98.903 98.903 99.618 99.61	1.00 27.33 1.00 29.79 1.00 24.38 1.00 29.45 1.00 29.45 1.00 29.64 1.00 27.96 1.00 27.96 1.00 28.52 1.00 33.68 1.00 34.88 1.00 34.63 1.00 34.63 1.00 34.63 1.00 34.63 1.00 34.73 1.00 36.37 1.00 36.47 1.00 36.37 1.00 36.47 1.00 36.37 1.00 36.47 1.00 36.37 1.00 37.56 1.00 36.27 1.00 33.56 1.00 35.76 1.00 35.66 1.00 35.66 1.00 35.66 1.00 36.81 1.00 36.81 1.00 36.81 1.00 36.81 1.00 36.81 1.00 36.81 1.00 36.81 1.00 36.81 1.00 37.30 1.00 37.30 1.00 36.54 1.00 36.54 1.00 37.30 1.00 36.54 1.00 37.30 1.00 36.54 1.00 36.54 1.00 36.54 1.00 36.54 1.00 36.54 1.00 37.30 1.00 36.54 1.00 36.58 1.00 36.58 1.00 36.58 1.00 36.58 1.00 36.58 1.00 36.58 1.00 36.58	137031729528550
	ATOM ATOM ATOM ATOM ATOM	164 164 164 164	5 N 6 CA 7 CB 8 CG 9 CI	GLU A 20 GLU A 20 GLU A 20 GLU A 20 GLU A 20	7 7 7 17 17	35.29 36.00 36.04 37.18	7 20.72 0 19.36 4 18.74 2 17.75	6 104.59 69 104.56 11 103.17 51 103.02	9 1.00 31.6 6 1.00 34.1 9 1.00 33.8 2 1.00 33.8	5 5 0 5

						22 260	17.688	101 916	1.00 3	5 48
MOTA	1651	OE2 G	LU A	207		37.760	17.000		1.00 3	
ATOM	1652	C 0	LU A	207		35.182				
ATOM	1653	0 0	LU A	207		36.009	20.894		1.00 3	4.10
	1654	N I	LE A	208		34.150	22.024	106.302	1.00 3	
ATOM		14 7	LE A	200		33.968	22.604	107.634	1.00 3	8.96
MOTA	1655	CA I	ים פים	200		33.737	24 134	107.529	1.00 4	12.74
MOTA	1656	CB 3	LE A	208			24.753	108.914	1.00 4	
MOTA	1657	CG2_1	LE A	208		33.717	24.702	100.314	1.00 4	
MOTA	1658	CG1 I	LE A	208		34.841	24.795	106.700		
ATOM	1659	CD1	LÉ A	208		36.207	24.758	107.335	1.00 4	
		c :	LE A	708		32.821	21.998	108.452	1.00	
MOTA	1660	· ·	ILE A	200		32.558	22.434	109.571	1.00 4	
MOTA	1661	0	א שעו	200	•	32.142	20 997	107.901	1.00	34.36
MOTA	1662	И	GLY A	209			20.337	108.620	1.00	
MOTA	1663	CA (GLY A	209		31.047		100.020	1.00	
ATOM	1664	C (GLY A	209	•	29.699	20.673	107.993		
MOTA	1665	0 (GLY A	209		29.579	21.581		1.00	
	1666		GLU A			28.676	19.917	108.380	1.00	
MOTA			GLU A			27.337	20.118		1.00	
MOTA	1667		GLU A			27.008	19.012	106.823	1.00	42.73
MOTA	1668					26.860		107.460	1.00	47.38
ATOM	1669		GLU A					106.443	1.00	
MOTA	1670	CD	GLU A	210		26.633			1.00	
ATOM	1671	OE1	GLU A	210		26.385		106.860		
MOTA	1672	OE2	GLU A	210		26.711		105.226		53.78
-	1673	c	GLU A	210		26.287		108.938	1.00	42.90
MOTA			GLU A			26.516	19.577	110.022	1.00	45.94
MOTA	1674	0	GLU A	210		25.130	20.702	108.654	1.00	43.16
ATOM	1675	N	GLY A	211		24.068	20.751	109.642		43.98
MOTA	1676	CA	GLY A	211			21.450	110.911		45.01
ATOM	1677		GLY A			24.514				48.15
ATOM	1678		GLY A			25.186	22.4/9	110.858		41.63
ATOM	1679	N	LYS A	212		24.145	20.896	112.059		
	1680		LYS A			24.528	21.495	113.328		45.07
MOTA			LYS			23.913	20.715	114.490		46.59
MOTA	1681	CB	LYS A	212		22.386	20.591	114.462	1.00	55.31
ATOM	1682	CG				21.651	21.945		1.00	57.42
ATOM	1683	CD	LYS A			21.031		113.151	1.00	59.71
ATOM	1684	CE	LYS A	212		21.749	22.030	113 170	1 00	57.43
ATOM	1685	NZ	LYS A	212		21.051		113.178		42.08
ATOM	1686	С	LYS A	212		26.046	21.513	113.469		
	1687	ō	LYS A	212		26.598	22.326	114.207		40.03
MOTA	1688	11	GLY ?			26.713	20.615	112.751		39.51
MOTA			GLY A			28.163	20.538	112.817	1.00	40.11
MOTA	1689	CA	GLI A	1 213		28.888	21.519		1.00	38.25
MOTA	1690	С	GLY A			30.122	21.575		1.00	34.70
MOTA	1691	0	GLY A				22.295			37.31
ATOM	1692	N		214		28.131	22.43	110.250	1 00	39.58
ATOM	1693	CA	LYS A	214		28.736	23.274			44.69
ATOM	1694	CB	LYS A	214		27.656	24.017	109.463	1.00	44.09
	1695	CG	LVS	214		28.189	25.030	108.461	1.00	44.53
MOTA				A 214		27.047	25.704	107.720	1.00	47.71
MOTA	1696		11. 4	214		27.553		106.754	1.00	52.94
MOTA	1697	CE	PX 1	A 214		28.453	26 18	105.717	1.00	57.45
MOTA	1698	NZ	LAT '	A 214			24 25	111.085	1.00	40.16
MOTA	1699	С	LYS .	A 214		29.547	24.25	111.003	1 00	37.92
ATOM	1700	0	LYS .	A 214		29.002	24.96.	3 111.933		36.57
ATOM	1701	N	GLY .	A 215		30.851	24.29	5 110.846		
		CA	GLY	A 215		31.716	25.183	3 111.593	1.00	35.03
MOTA	1702		CTV	A 215		32.431	24.44	B 112.709		34.57
ATOM	1703		GLI.	M 213		33.216	25.03	9 [.] 113.454	1.00	33.76
MOTA	1704		GLY	A 215		32.168		3 112.837	1.00	34.61
MOTA	1705	N		A 216				8 113.885		35.00
ATOM	1706	CA	TYR	A 216		32.816		8 113.003		36.19
	1707			A 216		31.763		3 114.753		, 30.13
ATOM			TVR	A 216		30.928		1 115.547		36.68
ATOM	1708			A 216		29.961	23.46	2 114.925	1.00	35.83
MOTA	1709			2 216		29.249		1. 115.641	1.00	40.89
ATOM	1710			A 216		31.163		9 116.910		41.50
ATOM	1711	. CD2		A 216		31.103		4 117.634		40.69
ATOM	1713	CE2	TYR	A 216		30.459		2 116.994		40.17
ATOM	1713		TYR	A 216		29.505		Z 110 300		38.09
	171		TYR	A 216		28.816		6 117.708		0 34 AE
MOTA	1715		ΨYR	A 216		33.877		4 113.401		34.05
ATOM			WAD.	A 216		34.263		2 114.127	1.0	0 31.87
MOTA	1716	, ,	TIK							

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735	CA A CB A CG A OD1 A ND2 A C A O A N I CA I CD2 I C D1 I C D2 I C I O I N A CA CB A	ASN A 217 ASN A 218 ASN A 218 ASU A 219 ASN A 219 ASN A 219	34.343 35.398 34.833 35.897 36.558 36.094 36.378 35.983 37.655 38.670 39.160 39.513 40.432 40.197 39.870 40.527 40.151 41.287 40.875	19.727 18.764	111.606 110.615 110.105 109.097 110.831	1.00 29.90 1.00 30.02 1.00 26.46 1.00 30.13 1.00 29.80 1.00 19.92 1.00 30.23 1.00 27.88 1.00 29.45 1.00 28.76 1.00 29.02 1.00 34.69 1.00 32.93 1.00 30.69 1.00 25.25 1.00 25.25 1.00 21.91 1.00 23.69 1.00 23.69 1.00 27.88
MOTA	1736	CG	ASN A 219	39.972 40.153	18.440	108.289	1.00 29.28
MOTA	1737		ASN A 219	39.018	18.900	106.407	1.00 24.48
ATOM	1738	ND2	ASN A 219 ASN A 219	42.355	22.074	107.906	1.00 23.46
ATOM	1739	0	ASN A 219 ASN A 219	42.059	23.073	107.259	1.00 28.17
MOTA	1740 1741	N	ILE A 220	43.595	21.804	108.287	1.00 23.90
ATOM ATOM	1742		ILE A 220	44.702	22.684	107.945	1.00 23.22
ATOM	1743	CB	ILE A 220	45.468	23.131	109.212	1.00 28.73 1.00 26.01
MOTA	1744		ILE A 220	46.601	24.078	108.831	1.00 26.01 1.00 26.36
ATOM	1745	CG1	ILE A 220	44.502		110.212 109.688	1.00 25.74
MOTA	1746		ILE A 220	43.771	25.004 21.929		1.00 25.29
ATOM	1747		ILE A 220	45.669 46.631	21.323	107.477	1.00 20.44
ATOM	1748	0	ILE A 220	45.396	21 924	105.703	1.00 26.34
ATOM	1749		PRO A 221 PRO A 221	44.234	22:497	104.999	1.00 28.22
MOTA	1750		PRO A 221	46.271	21.234	104.747	1.00 26.92
MOTA	1751 1752	CB	PRO A 221	45.454	21.279	103.457	1.00 27.81
ATOM ATOM	1753	CG	PRO A 221	44.774	22.622	103.582	1.00 30.62
ATOM	1754	c	PRO A 221	47.595		104.625	1.00 27.45 1.00 31.21
ATOM	1755	0	PRO A 221	47.603	23.199		1.00 31.21 1.00 26.01
MOTA	1756	N	LEU A 222	48.704	21.242	104.703	1.00 26.41
MOTA	1757		LEU A 222	50.038 50.726	21.836	105.997	1.00 26.12
ATOM	1758	CB	LEU A 222	49.960	22.322	107.150	1.00 27.67
ATOM	1759	CG	LEU A 222	50.531	21.899	108.497	1.00 30.97
MOTA	1760	CDI	LEU A 222 LEU A 222	50.024	23.839	106.985	1.00 31.59
MOTA	1761 1762		LEU A 222	50.911	21.286	5 103.504	1.00 28.97
ATOM	1763	0	LEU A 222	50.784	20.128	3 103.117	1.00 27.95
MOTA ATOM	1764	N	PRO A 223	51.821	22.11	5 102.964	1.00 31.52
ATOM	1765	CD	PRO A 223	52.059	23.51	3 103.358	1.00 29.08 1.00 29.93
ATCM	1766	CA	PRO A 223	52.727	21.75	3 101.865	1.00 29.16
ATOM	1767	CB	PRO A 223	53.265	23.10	9 101.428 1 102.779	1.00 25.86
ATOM	1768	CG	PRO A 223	53.458	23.77	2 102.206	1.00 33.62
MOTA	1769	С	PRO A 223	53.862 54.179	20.70	1 103.376	1.00 26.55
MOTA	1770	၁	PRO A 223	54.479	20.35	7 101.153	1.00 34.00
MOTA	1771	N	LYS A 224 LYS A 224	55.595	19.32	0 101.264	1.00 32.88
MOTA	1772		LYS A 224	55.938	18.76		1.00 36.31
ATOM	1773 1774		LYS A 224	54.761	18.20	4 99.115	
ATOM ATOM	1775		LYS A 224	55.150			
ATOM ATOM	1776		LYS A 224	53.989		8 96.835	
ATOM	1777		LYS A 224	54.331		1 95.388	1.00 46.60 1.00 29.43
ATOM	1778		LYS A 224	56.317		4 101.798	
ATOM	1779		LYS A 224	56.933		0 101.640	
ATOM	1780	N	GLY A 225	57.735		5 102.403 6 102.942	
ATCM	1781		GLY A 225	58.947		2 104.154	
ATOM	1782	2 C	GLY A 225	58.727	20.75		.

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. mov4	1783	O GLY A 225	59.610	21.562 104.528	1.00 29.09
ATOM	1784	N LEU A 226	57.560	20.679 104.777	1.00 24.26
atom atom	1785	CA LEU A 226	57.212	21.488 105.951	1.00 25.35
ATOM	1786	CB LEU A 226	55.930	20.925 106.579	1.00 23.23 1.00 28.28
ATOM	1787	CG LEU A 226	55.172	21.757 107.611	1.00 28.28
ATOM	1788	CD1 LEU A 226	54.596	22.972 106.911	1.00 28.07
MOTA	1789	CD2 LEU A 226	54.036	20.933 108.226 21.501 106.998	1.00 24.79
ATOM	1790	C LEU A 226	58.333		
ATOM	1791	O LEU A 226	58.902	20.450 107.299 22.674 107.548	
ATOM	1792	N ASN A 227	58.664	22.733 108.578	
MOTA	1793	CA ASN A 227	59.702 60.751	23.823 108.269	
ATOM	1794	CB ASN A 227	60.731	25.231 108.334	1.00 31.62
ATOM	1795	CG ASN A 227 OD1 ASN A 227	59.598	25.632 109.336	1.00 31.17
ATOM	1796 1797	ND2 ASN A 227	60.395	25.998 107.267	1.00 28.06
ATOM	1798	C ASN A 227	59.076	22.957 109.960	
MOTA MOTA	1799	O ASN A 227	57.873	23.206 110.065	
ATOM	1800	N ASP A 228	59.880	22.862 111.018	
ATOM	1801	CA ASP A 228	59.357	23.032 112.375	
ATOM	1802	CB ASP A 228	60.464	22.893 113.426 21.520 113.423	
ATOM	1803	CG ASP A 228	61.110	20.530 113.135	
MOTA	1804	OD1 ASP A 228	60.410 62.311	21.425 113.74	
MOTA	1805	OD2 ASP A 228	58.628	24.341 112.620	
ATOM	1806	C ASP A 228 O ASP A 228	57.589	24.360 113.28	1.00 25.68
MOTA	1807 1808	O ASP A 228 N ASN A 229	59.167	25.437 112.09	
ATOM	1809	CA ASN A 229	58.537	26.739 112.29	
MOTA MOTA	1810	CB ASN A 229	59.453	27.850 111.77	
ATOM	1811	CG ASN A 229	60.707	28.020 112.62	
MOTA	1812	OD1 ASN A 229	60.635	28.433 113.78	
ATOM	1813	ND2 ASN A 229	61.856	27.691 112.05 26.817 111.64	
MOTA	1814	C ASN A 229	57.168	27.387 112.20	
ATOM	1815	O ASN A 229	56.230 57.041	26:228 110.46	
MOTA	1816	N GLU A 230 CA "GLU A 230	55.761	26.244 109.77	3 1.00 30.77
MOTA	1817		55.929	25.716 108.34	1 1.00 29.11
ATOM	1818 1819	CB GLU A 230 CG GLU A 230	56.897	26.531 107.50	7 1.00 35.94
ATOM ATOM	1820	CD GLU A 230	57.119	25.946 106.12	
ATOM	1821	CE1 GLU A 230	57.465	24.748 106.03	
ATOM	1822	OE2 GLU A 230	56.957	26.684 105.12 25.407 110.52	
ATOM	1823	C GLU A 230	54.723	25.407 110.52 25.799 110.63	
ATOM	1824	O GLU A 230	53.563 55.141	24.262 111.06	
ATOM	1825	N PHE A 231	54.223	23.386 111.79	
ATOM	1826	CA PHE A 231 CB PHE A 231	54.913	22.075 112.19	1.00 31.22
ATOM	1827 1828	CB PHE A 231 CG PHE A 231	53.974	21.050 112.78	1 1.00 28.41
ATOM ATOM	1829	CD1 PHE A 231	53.026	20.417 111.98	1.00 29.66
ATOM	1830	CD2 PHE A 231	54.036	20.723 114.13	1.00 28.38
ATOM	1931	CE1 PHE A 231	52.153	19.469 112.5	1.00 25.79 1 1.00 31.40
ATOM	1832	CE2 PHE A 231	53.166	19.774 114.68 19.146 113.8	
ATOM	1833	CZ PHE A 231	52.223	24.065 113.0	
ATOM	1834	C PHE A 231	53.693		
ATOM	1835	O PHE A 231	52.483 54.598		1.00 26.75
ATOM	1836		54.193		2 1.00 27.25
ATOM	1837		55.422	25.617 115.9	33 1.00 25.15
MOTA	1838		56.176	24.372 116.4	20 1.00 28.11
ATOM	1839 1840		57.440	24.783 117.1	62 1.00 27.32
atom atom	1841		55.268	23.540 117.3	
ATOM ATOM	1842	C LEU A 232	53.371	26.542 114.8	
ATOM	1843	0 LEU A 232	52.449		
ATOM	1844	N PHE A 233	53.694		
ATOM	1845		52.950		
ATCM	1846		53.542 52.719		48 1.00 29.65
ATOM	1847	CG PHE A 233	52.713		
ATCM	1948	3 CD1 PHE A 233	٠٠٠٠ عر		

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		an2	PHE A 233		51.825	29.903 1	10.412	1.00 31.59
	1849	CDZ.	PHE A 233		52.008	32.468 1	.11.452	1.00 33.90
MOTA	1850		PHE A 233		51.022	30.924 1	.09.895	1.00 32.47
ATOM	1851	CE2	PHE A 233		51.114	32.208 1	.10.415	1.00 32.50
MOTA	1852		PHE A 233		51.510	27.999	13.031	1.00 31.62
MOTA	1853	С	PHE A 233		50.553	28.603	13.532	1.00 25.88
MOTA	1854	0	ALA A 234		51.370	26.955	112.215	1.00 28.12
ATOM	1855	N	ALA A 234		50.056	26.436	111.853	1.00 25.68
MOTA	1856	CA	ALA A 234		50.195	25.279	110.864	1.00 20.08
ATOM	1857	CB C	ALA A 234		49.304	25.969	113.089	1.00 25.17
ATOM	1858	0	ALA A 234		48.114	26.228	113.234	1.00 25.21
MOTA	1859	И	LEU A 235		50.002	25.285	113.987	1.00 28.18
MOTA	1860 1861	CA	LEU A 235		49.367	24.781	115.195	1.00 33.70
MOTA	1862	CB	LEU A 235		50.356	23.964	116.026	1.00 32.70
MOTA	1863	CG	LEU A 235		49.772	22.788	116.820	1.00 36.89
MOTA MOTA	1864	CD1	LEU A 235		50.634	22.545	118.052	1.00 31.37 1.00 31.47
ATOM	1865	CD2	LEU A 235		48.344	23.072	117.231	1.00 31.47
MOTA	1866	C	LEU A 235		48.841	25.925	116.062	1.00 28.13
ATOM	1867	0	LEU A 235		47.673	25.926	116.455	1.00 28.13
MOTA	1868	N	GLU A 236		49.710	26.888	116.362	1.00 37.30
MOTA	1869	CA	GLU A 236		49.336	28.026	117.199 117.400	1.00 41.51
MOTA	1870	CB	GLU A 236		50.528		117.400	1.00 49.54
ATOM	1871	CG	GLU A 236		51.675	28.300	118.451	1.00 55.02
ATOM	1872	CD	GLU A 236		52.811	29.334	119.140	1.00 56.19
MOTA	1873	OE1	. GLU A 236		53.781		117.968	1.00 54.84
MOTA	1874	OE2	GLU A 236		52.735		116.538	1.00 33.98
MOTA	1875	C	GLU A 236		48.163 47.211	29.098	117.362	1.00 37.01
MOTA	1876	0	GLU A 236	•	48.223	29.137	115.354	1.00 33.94
MOTA	1877	N	LYS A 237		47.140		114.726	1.00 33.10
MOTA	1878	CA	LYS A 237 LYS A 237		47.505	30.244	113.281	1.00 36.08
MOTA	1879	CB	LYS A 237		48.695		113.165	1.00 33.62
MOTA	1880	CG	LYS A 237		48.395	32.508	113.856	1.00 37.99
MOTA	1881	CD	LYS A 237		49.569	33:471	113.762	1.00 45.24
ATOM	1882	CE NZ	LYS A 237		49.285	34.737	114.500	1.00 43.49
MOTA	1883	C	LYS A 237	,	45.820	29.128	114.751	1.00 31.40
MOTA	1884 • 1885	Ö	LYS A 237	,	44.793	29.680	115.131	1.00 31.67
ATOM	1886	N	SER A 238	3	45.841	27.861	114.354	1.00 28.72
ATOM ATOM	1887	CA		3	44.610	27.080	114.335	1.00 31.74 1.00 28.90
ATOM		СВ	SER A 238	3	44.834	25.720	113.660	1.00 25.18
ATOM	1889	OG	SER A 238	3	45.760	24.924	114.372 115.740	1.00 33.23
MOTA	1890	С	SER A 23	3	44.041	26.875	115.916	1.00 34.79
MOTA	1891	0	SER A 23	3	42.823		116.741	1.00 35.27
ATOM	1892		LEU A 23	₹	44.907		118.108	1.00 37.57
MOTA	1893		LEU A 23)	44.413 45.554		119.090	1.00 38.58
MOTA	1894		LEU A 23)	46.176		119.038	1.00 39.74
MOTA	1895	CG	LEU A 23	7	47.276		120.075	1.00 35.82
ATOM	1896		1 LEU A 23	9	45.109		119.301	1.00 34.93
ATOM	1897		2 LEU A 23	9	43.670		118.521	1.00 39.09
MOTA	1898		LEU A 23 LEU A 23	,	42.628	27.782	2 119.174	1.00 35.50
ATOM	1899		GLU A 24	9 N	44.202	29.00	7 118.131	1.00 39.27
MOTA	1900			n	43.561	30.283	L 118.450	1.00 40.15
ATOM	1901			0	44.366	31.448	3 117.883	1.00 40.42
MOTA	. 1902			ñ	45.661	31.74	7 118.602	1.00 43.91
ATOM	1903			Ö	46.407	32.88	4 117.942	1.00 49.31
MOTA	1904 1905	CI S	E1 GLU A 24	0	45.772	33.92	5 117.665	1.00 49.00
MOTA			E2 GLU A 24	Ó	47.624	32.74	5 117.705	1.00 54.05
ATOM	1900	•	GLU A 24	0	. 42.16	30.31		1.00 39.58
ATOM	190			0	41.22			
ATOM	190	-		1	42.03		4 116.645	
ATCM				1	40.75		6 115.964	
MOTA	191	1 C	B ILE A 24	1	40.90		0 114.546	
ATOM ATOM		2 C	G2 ILE A 24	1	39.53		5 113.895 8 113.724	
ATOM	- 01	3 C	G1 ILE A 24	11	41.83		1 112.32	
ATOM	1		D1 ILE A 24	11	42.10	0 29.54	1 1-6.36	
AIOH	-							

								1 00 17 33
ATOM	1915	С	ILE A 241	3	39.751		116.737	1.00 37.31
			ILE A 241	•	38.591	29.264	116.884	1.00 37.91
MOTA	1916	C	ILE A 241				117.231	1.00 37.07
MOTA	1917	N	VAL A 242		40.203			1.00 38.35
ATOM	1918	CA	VAL A 242		39.336		117.981	
		CB	VAL A 242		40.025	25.477	118.250	1.00 37.58
MOTA	1919					24.581	119.078	1.00 31.91
MOTA	1920	CG1	VAL A 242		39.120			1.00 39.21
ATOM	1921	CG2	VAL A 242		40.364	24.803	116.928	
		-	VAL A 242		38.930	27.451	119.305	1.00 40.40
MOTA	1922	C				27.422	119.675	1.00 38.19
MOTA	1923	0	VAL A 242		37.759			
ATOM	1924	N	LYS A 243		39.905	28.008	120.014	1.00 45.47
			LYS A 243 ·		39.661	28.654	121.301	1.00 48.74
MOTA	1925	CA					121.801	1.00 51.01
MOTA	1926	CB	LYS A 243		40.945			1.00 56.09
MOTA	1927	CG	LYS A 243		41.853		122.614	
			LYS A 243		41.250	28.149	123.991	1.00 57.39
MOTA	1928	CD			41.054	29.436	124.783	1.00 59.53
MOTA	1929	CE	LYS A 243				126.127	1.00 57.91
ATOM	1930	ΝZ	LYS A 243		40.448	29.193		1.00 57.51
	1931	C	LYS A 243		38.559	29.705	121.260	1.00 51.67
MOTA			LYS A 243		37.815	29.871	122.226	1.00 52.84
MOTA	1932	0				30 410	120.140	1.00 53.77
MOTA	1933	N	GLU A 244		38.451	30.410	120.140	1.00 54.74
	1934	CA	GLU A 244		37.460	31.471	120.004	
MOTA			GLU A 244		37.954	32.497	118.986	1.00 55.15
MOTA	1935	CB			37.068	33.717	118.865	1.00 60.63
ATOM	1936	CG	GLU A 244			30.717		1.00 65.87
ATOM	1937	CD	GLU A 244		37.602		117.868	
	1938	CE1			38.746	35.181	118.053	1.00 70.36
ATOM					36.879	35.031	116.900	1.00 67.09
MOTA	1939	OE2						1.00 52.65
ATOM	1940	C	GLU A 244		36.051	31.025		1.00 55.59
	1941	O.	GLU A 244		35.127	31.838		
MOTA			VAL A 245		35.869	29.745	119.332	1.00 50.57
MOTA	1942	;1			34.546	29.269		1.00 45.75
MOTA	1943	CA	VAL A 245					1.00 46.91
MOTA	1944	СЗ	VAL A 245		34.475	29.081		
	1945	CG1			33.085	28.634	116.986	1.00 52.62
MOTA					34.825	30 389	116.716	1.00 48.34
ATOM	1946	CG2	VAL A 245			27 069	119.642	1.00 42.67
ATOM	1947	С	VAL A 245		34.130	27.909	119.042	1 00 42 61
	1948	О	VAL A 245		33.021	27.480	119.445	1.00 43.61
MOTA			PHE A 246		35.001	27.417	120.477	1.00 40.87
MOTA	1949	N	PRE A 240		34.662	26 168	121.139	1.00 37.47
MOTA	1950	CA	PHE A 246			20.100	120.257	1.00 37.00
MOTA	1951	CB	PHE A 246		35.106	24.991	. 120.237	
	1952	CG	PHE A 246		34.450	23.685	120.604	1.00 33.22
ATOM					33.111	23.467	120.302	1.00 33.93
ATOM	1953	CD			35.168	22.674	121.234	1.00 32.13
ATOM	1954	CD2				22.07		1.00 37.75
ATOM	1955	CE:	1 PHE A 246		32.493	22.260	120.621	
	1956	CE:			34.561	21.459	121.561	1.00 35.92
MOTA					33.217	21.25	2 121.251	1.00 36.30
MOTA	1957	CI	PHE A 246			26 06	122.509	1.00 38.93
MOTA	1958	C	PHE A 246		35.322	20.00	122.630	
ATOM	1959	0	PHE A 246		36.546	26.15	3 122.630	1.00 40.00
	1960	11	GLU A 247		34.500	25.87	123.537	1.00 38.59
MOTA					34.970	5.73	3 124.918	1.00 44.60
MOTA	1961	CA	GLU A 247				5 125.865	1.00 47.07
MOTA	1962	CЗ	GLU A 247		34.146		. 125.005	
MOTA	1963	CG			33.161	27.56	9 125.185	
		22			31.944	26.86	5 124.577	1.00 62.03
MOTA	1964				32.096		8 123.607	1.00 61.85
ATCM	1965	ΘĒ					4 125.083	
ATOM	1966	ÐΞ	2 GLU A 247		30.822	_		
	1967	5	GLU A 247		34.774	24.26	9 125.285	1.00 39.40
ATOM		=	GLU A 247		33.727		9 125.794	1.00 39.91
atom	1968	9	GLU A 24/		35.792			
MOTA	1969	::	PRO A 248					
ATOM	1970		PRO A 248		37.101			
		CA.			35.769	22.00	6 125.316	
ATOM	1971				37.047		1 124.648	1.00 36.05
ATOM	1972	23			37.037	. 22.68		
ATOM	1973	cs	PRO A 248					
ATOM	1974		PRO A 248		35.736		1 126.779	
ATOM			PRO A 248		36.445	22.18	6 127.597	1.00 32.05
atom	1975				34.914		6 127.096	1.00 29.39
ATOM	1976		GLU A 249		34.841		5 128.459	
ATOM	1977	CA	GLU A 249				1 120 60	
	1978		GLU A 249		33.521		1 128.69	
MOTA					32.284	20.21	.2 128.56	1.00 35.98
ATC!I	1979		2 2 2 3 2 4 2		31.026		8 128.66	3 1.00 40.52
ATCM	1980) [GLU A 249		J UZ(

ATOM 1981 OEI GLO A 249 ATOM 1982 OE2 GLU A 249 ATOM 1983 C GLU A 249 ATOM 1984 OEI GLO A 249 ATOM 1985 OEI GLO A 24			oma CTU 3 040		30.817	18.509 127.804	1 1.00 40.27
ATOM 1984 O GLU A 249 36.479. ATOM 1985 C GLU A 249 36.479. ATOM 1986 O GLU A 249 36.479. ATOM 1987 N VAL A 250 36.434 18.547 127.502 1.00 28.51 ATOM 1987 CB VAL A 250 37.516 17.563 127.494 1.00 29.31 ATOM 1988 CGI VAL A 250 36.988 16.174 127.926 1.00 29.35 ATOM 1988 CGI VAL A 250 38.988 16.174 127.926 1.00 24.36 ATOM 1999 CG VAL A 250 38.066 17.453 126.076 1.00 29.30 ATOM 1990 C VAL A 250 38.066 17.453 126.076 1.00 27.96 ATOM 1991 O VAL A 250 38.066 17.453 126.076 1.00 27.96 ATOM 1992 N TYR A 251 39.323 17.046 125.514 1.00 24.46 ATOM 1993 CA TYR A 251 39.323 17.046 125.141 1.00 24.46 ATOM 1994 CB TYR A 251 40.585 18.206 124.165 1.00 27.96 ATOM 1995 CG TYR A 251 40.585 18.206 124.165 1.00 27.96 ATOM 1995 CG TYR A 251 40.985 18.206 124.165 1.00 29.90 ATOM 1996 CDI TYR A 251 41.998 18.370 124.692 1.00 29.90 ATOM 1997 CEI TYR A 251 43.087 17.794 124.092 1.00 29.90 ATOM 1998 CDI TYR A 251 43.986 18.206 124.165 1.00 29.90 ATOM 1999 CEZ TYR A 251 44.990 17.953 124.507 1.00 29.20 ATOM 1996 CDI TYR A 251 43.987 17.951 124.692 1.00 29.90 ATOM 1997 CEI TYR A 251 43.987 17.951 124.692 1.00 29.90 ATOM 1998 CDI TYR A 251 43.987 17.953 124.507 1.00 29.20 ATOM 1998 CG TYR A 251 43.987 17.953 124.507 1.00 29.20 ATOM 1998 CEZ TYR A 251 43.987 17.953 124.507 1.00 29.20 ATOM 1998 CEZ TYR A 251 43.987 19.271 126.338 1.00 31.54 ATOM 2000 CZ TYR A 251 43.987 19.271 126.338 1.00 31.54 ATOM 2001 OH TYR A 251 43.987 19.271 126.338 1.00 31.54 ATOM 2002 C TYR A 251 40.98 115.273 124.507 1.00 23.52 ATOM 2003 O TYR A 251 40.98 115.273 124.507 1.00 23.52 ATOM 2004 N LEU A 252 40.98 15.227 123.227 1.00 23.52 ATOM 2006 CB LEU A 252 41.806 14.117 122.919 1.00 26.53 ATOM 2007 CC LEU A 255 41.806 14.117 122.919 1.00 26.53 ATOM 2010 C LEU A 252 42.828 15.441 1.00 12.00 28.49 ATOM 2010 C LEU A 253 44.075 14.196 12.00 27.56 ATOM 2010 C LEU A 253 47.166 15.80 10.00 24.60 ATOM 2010 C LEU A 255 40.266 14.176 12.00 24.60 ATOM 2010 C C LEU A 255 40.266 14.176 12.00 24.60 ATOM 2010 C C LEU A 255 40.266 14.176 11.00 17	MOTA	1981	OE1 GLU A 249		30.017	19 609 129.620	
ATOM 1995 N VAL 250 36.472 18.884 129.728 1.00 28.51 ATOM 1995 N VAL 250 36.434 18.547 127.502 1.00 33.74 ATOM 1997 CB VAL 250 37.516 17.563 127.494 1.00 29.85 ATOM 1998 CG VAL 250 37.516 17.563 127.494 1.00 29.85 ATOM 1998 CG VAL 250 37.516 17.563 127.494 1.00 29.85 ATOM 1999 C VAL 250 38.166 17.453 126.076 1.00 29.30 ATOM 1999 C VAL 250 38.161 15.166 127.978 1.00 25.60 ATOM 1999 C VAL 250 38.161 17.453 126.076 1.00 29.30 ATOM 1991 N YRA 251 39.323 17.046 125.930 1.00 27.96 ATOM 1992 N TYRA 251 39.323 17.046 125.930 1.00 27.96 ATOM 1995 CG TYRA 251 40.585 18.206 124.165 1.00 29.90 ATOM 1995 CG TYRA 251 40.585 18.206 124.165 1.00 25.89 ATOM 1995 CG TYRA 251 40.585 18.206 124.165 1.00 25.89 ATOM 1996 CD1 TYRA 251 43.087 17.794 124.692 1.00 26.02 ATOM 1997 CE1 TYRA 251 43.087 17.994 124.692 1.00 26.02 ATOM 1998 CD2 TYRA 251 43.087 17.995 124.507 1.00 26.02 ATOM 1999 CE2 TYRA 251 43.087 17.994 124.692 1.00 26.02 ATOM 1998 CD2 TYRA 251 43.087 17.994 124.692 1.00 26.02 ATOM 1998 CD2 TYRA 251 43.087 17.994 124.699 1.00 31.96 ATOM 1999 CE2 TYRA 251 43.087 17.995 124.507 1.00 29.20 ATOM 2000 C TYRA 251 44.61 18.694 125.664 1.00 31.46 ATOM 2000 OT TYRA 251 44.61 18.694 125.664 1.00 31.46 ATOM 2000 C TYRA 251 44.61 18.694 125.664 1.00 31.46 ATOM 2000 C TYRA 251 44.61 18.694 126.152 1.00 29.69 ATOM 2000 C TYRA 251 44.61 18.694 126.152 1.00 27.56 ATOM 2000 C TYRA 251 44.61 18.694 126.152 1.00 27.56 ATOM 2000 C TYRA 251 41.806 15.731 122.291 1.00 27.56 ATOM 2000 C TYRA 251 41.806 15.731 122.291 1.00 27.56 ATOM 2000 C C EUD A 252 41.806 15.731 122.291 1.00 27.56 ATOM 2000 C C EUD A 252 41.806 16.177 122.991 1.00 26.53 ATOM 2001 C EUD A 252 41.806 15.731 122.991 1.00 25.74 ATOM 2002 C C TYRA 251 41.806 14.177 122.919 1.00 26.53 ATOM 2010 C EUD A 252 42.528 18.444 121.055 1.00 27.56 ATOM 2010 C EUD A 252 42.528 18.444 121.055 1.00 27.56 ATOM 2010 C EUD A 252 42.528 18.444 121.055 1.00 27.56 ATOM 2010 C EUD A 252 42.528 18.444 121.055 1.00 27.56 ATOM 2010 C EUD A 252 42.528 18.444 121.055 1.00 27.56 ATOM 2010 C EUD A 252 42.528	MOTA					10 110 128 62	
ATOM 1995 N VAL À 250 36.434 18.547 127.502 1.00 33.74 ATOM 1995 CC VAL À 250 36.988 16.174 127.926 1.00 29.31 ATOM 1998 CGI VAL À 250 36.988 16.174 127.926 1.00 29.35 ATOM 1998 CGI VAL À 250 36.988 16.174 127.926 1.00 29.30 ATOM 1999 CG2 VAL À 250 38.066 17.453 126.076 1.00 29.30 ATOM 1991 O VAL À 250 38.066 17.453 126.076 1.00 24.46 ATOM 1991 O VAL À 250 38.066 17.453 126.076 1.00 24.46 ATOM 1992 N TYR À 251 39.865 16.913 124.585 1.00 24.96 ATOM 1993 CA TYR À 251 39.865 16.913 124.585 1.00 27.96 ATOM 1994 CB TYR À 251 40.585 18.206 124.165 1.00 29.90 ATOM 1995 CG TYR À 251 41.998 18.370 124.692 1.00 29.90 ATOM 1996 CD1 TYR À 251 41.998 18.370 124.692 1.00 29.90 ATOM 1996 CD1 TYR À 251 41.998 18.370 124.692 1.00 29.90 ATOM 1997 CEZ TYR À 251 41.998 18.370 124.692 1.00 29.90 ATOM 1998 CD2 TYR À 251 44.991 1.00 26.02 ATOM 1999 CC2 TYR À 251 44.991 1.00 26.02 ATOM 1999 CC2 TYR À 251 44.991 1.00 26.02 ATOM 1999 CC2 TYR À 251 44.991 1.00 26.03 ATOM 1999 CC2 TYR À 251 44.991 1.00 26.03 ATOM 2000 CZ TYR À 251 44.991 1.00 27.56 ATOM 2000 CZ TYR À 251 44.91 19.271 126.338 1.00 31.54 ATOM 2000 CZ TYR À 251 44.91 19.271 126.338 1.00 31.54 ATOM 2000 CZ TYR À 251 41.986 18.854 125.664 1.00 31.46 ATOM 2000 CZ TYR À 251 40.801 15.791 124.451 1.00 27.56 ATOM 2005 CA LEU À 252 41.957 10.22 22 23 1.00 23.52 ATOM 2006 CB LEU À 252 41.957 12.33 122.219 1.00 23.52 ATOM 2006 CB LEU À 252 41.957 12.33 122.219 1.00 25.74 ATOM 2007 CG LEU À 252 41.957 12.33 122.233 1.00 25.74 ATOM 2010 C LEU À 252 42.842 12.233 12.235 1.00 25.74 ATOM 2010 C LEU À 252 42.842 12.233 12.235 1.00 25.74 ATOM 2010 C LEU À 252 42.842 12.233 12.235 1.00 25.74 ATOM 2010 C LEU À 252 42.842 11.932 1.00 27.56 ATOM 2010 C LEU À 253 ATOM 2016 CD1 LEU À 253 ATOM 2016 CD1 LEU À 253 ATOM 2017 CD2 LEU À 253 ATOM 2016 CD1 LEU À 253 ATOM 2017 CD2 LEU À 253 ATOM 2016 CD1 LEU À 253 ATOM 2017 CD2 LEU À 253 ATOM 2017 CD2 LEU À 253 ATOM 2018 C LEU À 253 ATOM 2018 C LEU À 253 ATOM 2019 C LEU À 253 ATOM 2010 C LE	MOTA					10 004 120 729	
ATOM 1995 CA VAL A 250 37.516 17.563 127.494 1.00 29.35 ATOM 1997 CB VAL A 250 35.988 16.174 127.926 1.00 29.85 ATOM 1988 CG1 VAL A 250 35.988 16.174 127.926 1.00 25.60 ATOM 1999 C VAL A 250 38.066 17.453 126.076 1.00 25.60 ATOM 1990 C VAL A 250 38.066 17.453 126.076 1.00 25.00 24.46 ATOM 1991 O VAL A 250 38.066 17.453 126.076 1.00 25.00 ATOM 1991 O VAL A 250 37.358 17.046 125.930 1.00 27.96 ATOM 1993 CA TYR A 251 39.323 17.046 125.930 1.00 27.96 ATOM 1993 CA TYR A 251 39.323 17.046 125.930 1.00 27.96 ATOM 1994 CB TYR A 251 40.585 18.206 124.165 1.00 25.89 ATOM 1995 CC TYR A 251 40.585 18.206 124.165 1.00 25.89 ATOM 1995 CD1 TYR A 251 43.087 17.794 125.184 1.00 26.02 ATOM 1997 CE1 TYR A 251 43.087 17.794 124.092 1.00 26.02 ATOM 1998 CD2 TYR A 251 43.087 17.794 125.849 1.00 31.06 ATOM 1999 CC2 TYR A 251 43.087 17.794 125.849 1.00 31.06 ATOM 1999 CC2 TYR A 251 44.551 19.271 126.338 1.00 31.54 ATOM 2001 OH TYR A 251 44.614 18.694 125.664 1.00 31.46 ATOM 2001 OH TYR A 251 44.614 18.694 126.152 1.00 27.56 ATOM 2002 C TYR A 251 44.614 18.694 126.152 1.00 27.56 ATOM 2003 O TYR A 251 44.614 18.694 126.152 1.00 27.66 ATOM 2003 O TYR A 251 41.382 15.731 124.451 1.00 27.56 ATOM 2006 CB LEUI A 252 40.906 15.221 123.227 1.00 25.74 ATOM 2006 CB LEUI A 252 40.906 15.221 123.227 1.00 25.74 ATOM 2006 CB LEUI A 252 40.906 15.221 123.227 1.00 23.52 ATOM 2006 CB LEUI A 252 40.906 15.221 123.227 1.00 23.52 ATOM 2007 CG LEU A 252 40.906 15.221 123.227 1.00 25.74 ATOM 2010 C LEUI A 252 40.906 15.221 123.227 1.00 25.74 ATOM 2010 C LEUI A 252 40.906 15.221 123.227 1.00 25.74 ATOM 2010 C LEUI A 252 40.906 15.221 123.227 1.00 25.74 ATOM 2010 C LEUI A 252 40.906 15.221 123.227 1.00 25.74 ATOM 2010 C LEUI A 252 40.906 15.221 123.227 1.00 25.74 ATOM 2010 C LEUI A 252 40.906 15.221 123.227 1.00 25.74 ATOM 2010 C LEUI A 252 40.906 15.221 123.227 1.00 23.52 ATOM 2010 C LEUI A 253 47.456 18.808 121.323 1.00 21.00 25.74 ATOM 2010 C LEUI A 255 40.906 18.808 121.323 1.00 21.00 25.74 ATOM 2010 C LEUI A 255 40.906 18.808 121.329 1.00 22.33 ATOM 2010	ATOM	1984			-	10.004 123.74	
ATOM. 1986 CG VAL A 250	ATOM	1985	N VAL A 250		_	18.54/ 12/.50	
ATOM 1988 CGL VAL A 250 ATOM 1989 CGL VAL A 250 ATOM 1989 CGL VAL A 250 ATOM 1990 C VAL A 250 ATOM 1991 C VAL A 250 ATOM 1991 C VAL A 250 ATOM 1991 C VAL A 250 ATOM 1992 N TYR A 251 ATOM 1992 N TYR A 251 ATOM 1993 CA TYR A 251 ATOM 1994 CB TYR A 251 ATOM 1995 CG TYR A 251 ATOM 1996 CD TYR A 251 ATOM 2000 CZ TYR A 251 ATOM 2000 CZ TYR A 251 ATOM 2000 CC TYR A 251 ATOM 2001 OR TYR A 251 ATOM 2000 CC TYR A 251 ATOM 2000 CC TYR A 251 ATOM 2001 OR TYR A 251 ATOM 2000 CC LEU A 252 ATOM 2001 OR TYR A 251 ATOM 2000 CC LEU A 252 ATOM 2007 CC LEU A 252 ATOM 2007 CC LEU A 252 ATOM 2008 CD1 LEU A 252 ATOM 2009 CD2 LEU A 252 ATOM 2001 C LEU A 253 ATOM 2010 C LEU A 253 ATOM 2011 O LEU A 253 ATOM 2011 O LEU A 253 ATOM 2012 N LEU A 253 ATOM 2012 C LEU A 253 ATOM 2013 CA LEU A 253 ATOM 2014 CB LEU A 253 ATOM 2015 CG LEU A 253 ATOM 2016 CD LEU A 253 ATOM 2017 CG LEU A 253 ATOM 2017 CG LEU A 253 ATOM 2018 C LEU A 253 ATOM 2010 C LEU A 253 ATOM 2011 O LEU A 253 ATOM 2012 N LEU A 253 ATOM 2013 CA LEU A 253 ATOM 2014 CB LEU A 253 ATOM 2015 CG LEU A 253 ATOM 2016 CD LEU A 253 ATOM 2017 CD LEU A 253 ATOM 2018 C LEU A 253 ATOM 2018 C LEU A 253 ATOM 2019 C LEU A 253 ATOM 2010 C LEU A 253 ATOM 2010 C LEU A 253 ATOM 2011 O LEU A 254 ATOM 2021 N LEU A 255 ATOM 2022 N LEU A 255 ATOM 2024 CD LEU A 255 ATOM 2024 CD LEU A 255 ATOM 2026 NEZ GLIN A 254 ATOM 2027 CG LEU A		1986				17.563 127.49	
ATOM 1988 CG1 VAL A 250 35.908 15.711 126.938 1.00 25.60 ATOM 1990 C VAL A 250 38.106 17.978 11.00 25.60 ATOM 1991 O VAL A 250 38.066 17.453 126.076 1.00 29.30 ATOM 1991 O VAL A 251 39.323 17.046 125.930 1.00 27.96 ATOM 1992 N TYR A 251 39.855 16.913 124.585 1.00 30.06 ATOM 1993 CA TYR A 251 39.855 16.913 124.585 1.00 30.06 ATOM 1995 CG TYR A 251 40.585 18.206 124.165 1.00 25.89 ATOM 1995 CG TYR A 251 40.585 18.206 124.165 1.00 26.02 ATOM 1996 CD1 TYR A 251 44.390 17.793 124.692 1.00 29.90 ATOM 1997 CE1 TYR A 251 44.390 17.793 124.692 1.00 29.90 ATOM 1998 CD2 TYR A 251 43.087 17.794 124.029 1.00 26.02 ATOM 1998 CD2 TYR A 251 43.501 19.271 126.338 1.00 31.54 ATOM 2000 CZ TYR A 251 44.390 17.795 124.507 1.00 29.59 ATOM 1999 CD2 TYR A 251 44.390 17.795 124.615 1.00 27.56 ATOM 2000 CZ TYR A 251 44.390 17.795 124.615 1.00 27.56 ATOM 2000 CZ TYR A 251 44.390 17.795 124.451 1.00 27.56 ATOM 2000 CZ TYR A 251 44.801 15.731 124.451 1.00 27.56 ATOM 2000 CZ TYR A 251 44.801 15.731 124.451 1.00 27.56 ATOM 2000 CZ TYR A 251 44.801 15.731 124.451 1.00 27.56 ATOM 2000 CZ TYR A 251 44.801 15.731 124.451 1.00 27.56 ATOM 2000 CZ ELU A 252 41.806 14.171 122.919 1.00 26.53 ATOM 2005 CA LEU A 252 41.806 14.171 122.919 1.00 26.53 ATOM 2005 CA LEU A 252 41.806 14.171 122.919 1.00 26.53 ATOM 2006 CB LEU A 252 41.057 12.930 122.223 1.00 28.49 ATOM 2010 C LEU A 252 39.122 12.733 123.868 1.00 27.57 ATOM 2006 CB LEU A 252 41.057 12.930 122.293 1.00 25.74 ATOM 2010 C LEU A 252 39.122 12.733 123.868 1.00 27.53 ATOM 2010 C LEU A 252 41.551 12.73 129.54 11.00 27.55 ATOM 2010 C LEU A 252 41.551 12.73 129.54 11.00 27.56 ATOM 2011 C LEU A 253 ATOM 2011 C LEU A 253 ATOM 2011 C LEU A 253 ATOM 2012 C LEU A 253 ATOM 2013 C LEU A 253 ATOM 2014 CB LEU A 253 ATOM 2015 C C LEU A 253 ATOM 2016 CD1 LEU A 253 ATOM 2017 C C LEU A 253 ATOM 2018 C C LEU A			CB VAL A 250		_	16.174 127.92	
ATOM 1989 CG VAL A 250 38.121 15.166 127.978 1.00 29.30 ATOM 1990 C VAL A 250 38.066 17.453 126.076 1.00 29.30 ATOM 1991 O VAL A 250 38.066 17.453 126.076 1.00 29.30 ATOM 1992 N TYR A 251 39.323 17.046 125.930 1.00 27.96 ATOM 1993 CA TYR A 251 39.865 16.913 124.585 1.00 30.06 ATOM 1995 CG TYR A 251 40.986 18.206 124.165 1.00 25.89 ATOM 1996 CD1 TYR A 251 43.087 17.794 124.029 1.00 26.02 ATOM 1997 CEI TYR A 251 43.087 17.794 124.029 1.00 26.02 ATOM 1998 CD2 TYR A 251 44.390 17.953 124.507 1.00 29.90 ATOM 1999 CEZ TYR A 251 44.390 17.953 124.507 1.00 29.20 ATOM 1999 CEZ TYR A 251 44.590 17.953 124.507 1.00 29.20 ATOM 2000 CZ TYR A 251 43.551 19.271 126.338 1.00 31.54 ATOM 2001 CZ TYR A 251 44.614 18.694 126.132 1.00 29.69 ATOM 2002 C TYR A 251 44.614 18.694 126.132 1.00 29.69 ATOM 2003 O TYR A 251 44.614 18.694 126.132 1.00 29.69 ATOM 2004 N LEU A 252 40.908 15.222 123.227 1.00 23.52 ATOM 2006 CB LEU A 252 40.908 15.222 123.227 1.00 23.52 ATOM 2007 CG LEU A 252 40.908 15.222 123.227 1.00 23.52 ATOM 2008 CD1 LEU A 252 40.908 15.222 123.227 1.00 23.52 ATOM 2009 CD2 LEU A 252 39.122 12.753 123.868 1.00 27.67 ATOM 2009 CD2 LEU A 252 39.122 12.753 123.868 1.00 27.67 ATOM 2001 C LEU A 252 39.122 12.753 123.868 1.00 27.67 ATOM 2010 C LEU A 252 42.842 14.638 121.932 1.00 25.74 ATOM 2010 C LEU A 252 39.122 12.753 123.461 1.00 22.00 ATOM 2011 O LEU A 252 42.842 14.638 121.932 1.00 24.60 ATOM 2012 N LEU A 253 44.075 14.176 122.078 1.00 24.60 ATOM 2013 CA LEU A 253 44.075 14.176 122.078 1.00 24.60 ATOM 2013 CA LEU A 253 44.075 14.176 122.078 1.00 22.48 ATOM 2014 CB LEU A 253 47.105 16.83 120.175 1.00 22.48 ATOM 2015 CG LEU A 253 47.105 16.83 120.175 1.00 23.05 ATOM 2016 CD LEU A 253 47.105 16.83 120.175 1.00 22.48 ATOM 2017 CD LEU A 253 47.105 16.83 120.175 1.00 22.48 ATOM 2018 C LEU A 253 47.105 16.83 120.175 1.00 22.30 ATOM 2019 C LEU A 253 47.105 16.83 120.175 1.00 22.30 ATOM 2010 C LEU A 255 50.066 1.71 11.154 1.00 22.01 ATOM 2021 CC GLN A 254 46.075 12.208 115.304 1.00 22.13 ATOM 2021 CC GLN A 254 46.075 12.208 115.304					35.908	15.711 126.95	
ATOM 1990 C VAL A 250 38.066 17.451 125.114 1.00 24.46 ATOM 1991 O VAL A 250 37.358 17.741 125.114 1.00 24.46 ATOM 1992 N TYR A 251 39.323 17.046 125.930 1.00 27.96 ATOM 1993 CA TYR A 251 39.326 16.913 124.585 1.00 30.06 ATOM 1995 CG TYR A 251 40.585 18.206 124.165 1.00 25.89 ATOM 1995 CG TYR A 251 41.988 18.370 124.692 1.00 29.90 ATOM 1997 CE1 TYR A 251 44.390 17.794 124.029 1.00 29.90 ATOM 1998 CD2 TYR A 251 43.087 17.794 124.029 1.00 26.02 ATOM 1998 CD2 TYR A 251 43.087 17.795 124.502 1.00 29.90 ATOM 1999 CD2 TYR A 251 43.551 19.271 126.338 1.00 31.96 ATOM 1999 CD2 TYR A 251 44.390 17.7953 124.507 1.00 29.20 ATOM 1999 CD2 TYR A 251 44.390 17.7953 124.507 1.00 29.50 ATOM 2000 CZ TYR A 251 44.514 18.694 125.664 1.00 31.46 ATOM 2001 OR TYR A 251 44.614 18.694 125.664 1.00 29.69 ATOM 2002 C TYR A 251 41.382 15.273 124.451 1.00 27.56 ATOM 2000 CZ TYR A 251 41.382 15.273 124.451 1.00 27.56 ATOM 2000 C TYR A 251 41.382 15.273 125.436 1.00 23.52 ATOM 2005 CA LEU A 252 40.908 15.222 123.227 1.00 23.52 ATOM 2006 CB LEU A 252 41.806 14.117 122.919 1.00 26.53 ATOM 2006 CB LEU A 252 41.806 14.117 122.919 1.00 26.53 ATOM 2006 CB LEU A 252 40.266 12.001 123.221 1.00 28.49 ATOM 2010 C LEU A 252 39.727 10.835 122.414 1.00 32.00 ATOM 2010 C LEU A 252 39.727 10.835 122.414 1.00 32.00 ATOM 2010 C LEU A 252 42.584 14.057 12.930 122.293 1.00 25.74 ATOM 2010 C LEU A 253 44.075 12.930 122.293 1.00 25.74 ATOM 2011 C LEU A 253 44.075 12.930 122.293 1.00 25.74 ATOM 2010 C LEU A 253 44.075 12.930 122.293 1.00 25.74 ATOM 2010 C LEU A 253 44.075 12.930 122.293 1.00 22.50 ATOM 2010 C LEU A 253 45.157 12.930 122.294 1.00 22.30 ATOM 2011 C LEU A 253 45.157 12.930 122.294 1.00 22.30 ATOM 2012 C LEU A 253 45.157 12.30 18.55 12.00 123.00 ATOM 2010 C LEU A 253 45.55 1.00 123.00 ATOM 2011 C LEU A 253 45.55 1.00 123.00 ATOM 2012 C C LEU A 253 45.55 1.00 123.00 ATOM 2013 C C LEU A 253 45.55 1.00 123.00 ATOM 2018 C LEU A 253 45.55 1.00 123.00 ATOM 2018 C LEU A 253 45.55 1.00 123.00 ATOM 2020 C C LEU A 255 50.25 1.00 123.11 1.00 22.46 ATOM 2021 C C					38.121	15.166 127.97	
ATOM 1991 O VAL A 250 37.358 17.741 125.114 1.00 22.796 ATOM 1992 N TYR A 251 39.385 16.913 124.585 1.00 27.96 ATOM 1993 CA TYR A 251 49.865 16.913 124.585 1.00 30.05 ATOM 1995 CG TYR A 251 41.998 18.370 124.692 1.00 29.90 ATOM 1996 CD1 TYR A 251 43.087 17.794 124.029 1.00 29.90 ATOM 1997 CEI TYR A 251 41.998 18.370 124.692 1.00 29.90 ATOM 1997 CEI TYR A 251 44.390 17.953 124.507 1.00 29.20 ATOM 1998 CCD TYR A 251 44.390 17.953 124.507 1.00 29.20 ATOM 1998 CCD TYR A 251 44.390 17.953 124.507 1.00 29.20 ATOM 1998 CCD TYR A 251 44.390 17.953 124.507 1.00 31.96 ATOM 2000 CC TYR A 251 44.614 18.694 125.664 1.00 31.46 ATOM 2001 OT TYR A 251 44.614 18.694 125.664 1.00 31.46 ATOM 2001 OT TYR A 251 44.884 18.654 126.562 1.00 29.69 ATOM 2003 O TYR A 251 40.801 15.731 124.451 1.00 27.56 ATOM 2003 O TYR A 251 41.382 15.22 123.227 1.00 23.52 ATOM 2004 N LEU A 252 41.806 14.117 122.919 1.00 26.53 ATOM 2005 CA LEU A 252 41.806 14.117 122.919 1.00 26.53 ATOM 2006 CB LEU A 252 41.806 14.117 122.919 1.00 26.53 ATOM 2006 CB LEU A 252 41.806 14.117 122.919 1.00 26.53 ATOM 2007 CG LEU A 252 40.266 12.001 123.221 1.00 23.52 ATOM 2008 CD1 LEU A 252 39.727 10.835 123.2688 1.00 27.67 ATOM 2010 C LEU A 252 40.266 12.001 123.221 1.00 23.00 ATOM 2011 O LEU A 252 40.266 12.001 123.221 1.00 23.00 ATOM 2012 N LEU A 253 40.266 12.001 123.221 1.00 23.00 ATOM 2012 N LEU A 253 40.266 12.001 123.221 1.00 23.00 ATOM 2011 O LEU A 253 40.266 12.001 123.221 1.00 23.00 ATOM 2012 N LEU A 253 40.266 12.001 123.221 1.00 23.00 ATOM 2012 N LEU A 253 40.266 12.001 123.221 1.00 23.00 ATOM 2013 CA LEU A 253 40.266 12.001 123.221 1.00 23.00 ATOM 2010 C LEU A 253 40.266 12.001 123.221 1.00 23.00 ATOM 2010 C LEU A 253 40.266 12.001 123.221 1.00 23.00 ATOM 2010 C LEU A 253 40.266 12.001 123.221 1.00 23.00 ATOM 2010 C LEU A 253 40.266 12.001 123.221 1.00 23.00 ATOM 2010 C LEU A 253 40.266 12.001 123.221 1.00 23.00 ATOM 2010 C LEU A 255 40.266 12.001 123.221 1.00 23.00 ATOM 2010 C LEU A 255 40.266 12.001 123.221 1.00 23.00 ATOM 2010 C LEU A 255 40.266 12.001 123.2	•		C VAL A 250		38.066	17.453 126.07	
ATOM 1992 N TYR A 251 39.323 17.046 125.930 1.00 27.96 ATOM 1994 CB TYR A 251 39.865 16.913 124.5885 1.00 30.06 ATOM 1994 CB TYR A 251 40.585 18.206 124.165 1.00 25.89 ATOM 1995 CG TYR A 251 41.998 18.370 124.692 1.00 29.90 ATOM 1996 CD1 TYR A 251 44.390 17.795 124.507 1.00 29.90 ATOM 1997 CE1 TYR A 251 44.390 17.795 124.507 1.00 29.90 ATOM 1998 CD2 TYR A 251 44.390 17.795 124.507 1.00 29.20 ATOM 1998 CD2 TYR A 251 44.390 17.795 124.507 1.00 29.20 ATOM 1999 CC2 TYR A 251 44.390 17.795 124.507 1.00 29.69 ATOM 2000 CZ TYR A 251 44.61 18.694 125.664 1.00 31.96 ATOM 2001 OF TYR A 251 45.894 18.854 126.152 1.00 29.69 ATOM 2001 OF TYR A 251 45.894 18.854 126.152 1.00 29.69 ATOM 2002 C TYR A 251 40.801 15.731 124.451 1.00 27.56 ATOM 2003 O TYR A 251 41.382 15.273 122.3227 1.00 23.52 ATOM 2006 CB LEU A 252 41.806 14.117 122.919 1.00 26.53 ATOM 2006 CB LEU A 252 41.806 14.117 122.919 1.00 26.53 ATOM 2008 CD1 LEU A 252 41.806 14.117 122.919 1.00 26.53 ATOM 2008 CD2 LEU A 252 41.806 14.117 122.919 1.00 26.53 ATOM 2008 CD2 LEU A 252 41.807 14.118 12.201 12.00 27.67 ATOM 2010 C LEU A 252 42.842 14.638 121.932 1.00 25.74 ATOM 2010 C LEU A 252 42.588 15.444 121.055 1.00 24.60 ATOM 2011 O LEU A 252 42.842 14.638 121.932 1.00 27.55 ATOM 2010 C LEU A 253 44.075 14.176 122.078 1.00 27.53 ATOM 2011 O LEU A 253 44.075 14.176 122.078 1.00 27.53 ATOM 2011 O LEU A 253 47.456 15.803 121.323 1.00 24.60 ATOM 2015 CG LEU A 253 47.456 15.803 121.323 1.00 24.60 ATOM 2015 CG LEU A 253 47.456 15.803 121.323 1.00 24.60 ATOM 2016 CD1 LEU A 253 47.456 15.803 121.323 1.00 21.05 ATOM 2017 CD2 LEU A 253 47.456 15.803 121.323 1.00 21.05 ATOM 2017 CD2 LEU A 253 47.456 15.803 121.323 1.00 21.05 ATOM 2017 CD2 LEU A 253 47.456 15.803 121.323 1.00 21.05 ATOM 2016 CD1 LEU A 253 47.456 15.803 121.323 1.00 21.05 ATOM 2017 CD2 LEU A 253 47.456 15.803 121.323 1.00 21.05 ATOM 2020 CG LEU A 253 47.456 15.803 121.323 1.00 21.05 ATOM 2020 CG LEU A 255 47.606 47.707 11.00 12.90 ATOM 2020 CG LEU A 255 47.606 47.707 11.00 12.90 ATOM 2020 CG LEU A 255 50.606 11.804 1			O VAL A 250		37.358	17.741 125.11	
ATOM 1993 CA TYR A 251 49.865 16.913 124.585 1.00 30.06 ATOM 1995 CG TYR A 251 41.998 18.370 124.692 1.00 29.90 ATOM 1996 CD1 TYR A 251 41.998 18.370 124.692 1.00 29.90 ATOM 1997 CEI TYR A 251 41.998 18.370 124.692 1.00 29.90 ATOM 1998 CD2 TYR A 251 42.249 19.107 125.849 1.00 31.96 ATOM 1998 CD2 TYR A 251 44.390 17.993 124.507 1.00 29.20 ATOM 1998 CD2 TYR A 251 44.614 18.694 125.664 1.00 31.46 ATOM 2000 CZ TYR A 251 44.614 18.694 125.664 1.00 31.46 ATOM 2001 OH TYR A 251 44.614 18.694 125.664 1.00 31.46 ATOM 2002 C TYR A 251 44.614 18.694 125.664 1.00 29.69 ATOM 2002 C TYR A 251 44.614 18.694 125.664 1.00 29.69 ATOM 2003 O TYR A 251 44.814 18.694 125.664 1.00 27.63 ATOM 2004 N LEU A 252 40.908 15.222 123.227 1.00 23.52 ATOM 2006 CB LEU A 252 41.087 12.930 122.293 1.00 25.74 ATOM 2007 CG LEU A 252 41.087 12.930 122.293 1.00 25.74 ATOM 2009 CD2 LEU A 252 39.727 10.835 122.414 1.00 32.00 ATOM 2009 CD2 LEU A 252 39.727 10.835 122.414 1.00 32.05 ATOM 2010 C LEU A 252 42.528 15.444 121.055 1.00 24.42 ATOM 2011 O LEU A 252 42.528 15.444 121.055 1.00 24.42 ATOM 2011 C LEU A 252 42.528 15.444 121.055 1.00 24.42 ATOM 2011 C LEU A 253 44.075 14.176 122.078 1.00 24.60 ATOM 2012 N LEU A 253 44.075 14.176 122.078 1.00 24.60 ATOM 2013 CA LEU A 253 46.176 15.400 122.017 1.00 22.48 ATOM 2016 CD1 LEU A 253 46.176 15.400 122.017 1.00 22.48 ATOM 2016 CD1 LEU A 253 47.456 15.880 121.323 1.00 27.53 ATOM 2016 CD1 LEU A 253 47.456 15.880 121.323 1.00 27.53 ATOM 2017 CD2 LEU A 253 46.176 15.400 122.017 1.00 22.48 ATOM 2018 C LEU A 253 47.456 15.880 121.323 1.00 27.53 ATOM 2016 CD1 LEU A 253 47.456 15.880 121.323 1.00 27.53 ATOM 2017 CD2 LEU A 253 47.456 15.890 121.204 1.00 22.48 ATOM 2021 C C LEU A 253 47.456 15.890 121.204 1.00 22.48 ATOM 2021 C C LEU A 253 47.456 15.890 121.204 1.00 22.46 ATOM 2021 C C LEU A 253 46.476 12.018 11.914 11.00 31.02 11.00 21.05 ATOM 2020 C C LEU A 255 50.684 11.339 11.07 11.00 21.09 ATOM 2021 C C LEU A 255 50.894 11.349 11.574 1.00 21.09 ATOM 2022 C C LEU A 255 50.894 11.349 11.574 1.00 21.09 ATOM 2030 C			N TVP A 251			17.046 125.93	
ATOM 1994 CB TYR A 251				-		16.913 124.58	5- 1.00 30.06
ATOM 1995 CG TYR A 251 ATOM 1996 CD1 TYR A 251 ATOM 1997 CD1 TYR A 251 ATOM 1997 CD1 TYR A 251 ATOM 1998 CD2 TYR A 251 ATOM 1998 CD2 TYR A 251 ATOM 2000 CD2 ATOM 2000 CD2 ATOM 2000 CD3 ATOM 2000 CD4 ATOM 2000 CD3 ATOM 2000 CD4 ATOM 2000 CD5 ATOM 2000 CD5 ATOM 2000 CD5 ATOM 2000 CD7 ATOM 2001 CD7 ATOM 2002 CD7 ATOM 2003 CD7 ATOM 2003 CD7 ATOM 2004 CD7			CR TIN A 251			18,206 124.16	
ATOM 1996 CD1 TYR A 251			CG TYP 3 251		41.998	18.370 124.69	2 1.00 29.90
ATOM 1997 CEI TYR A 251		1995				17.794 124.02	9 1.00 26.02
ATOM 1998 CD2 TYR A 251			CDI TIR A 251			17.953 124.50	7 1.00 29.20
ATOM 1999 CEZ TYR A 251			CEI TIR A 251				9 1.00 31.96
ATOM 2000 CZ TYR A 251						19.271 126.33	8 1.00 31.54
ATOM 2000 CZ TAK A 251 45.894 18.854 126.152 1.00 29.69 ATOM 2002 C TYR A 251 40.801 15.731 124.451 1.00 27.56 ATOM 2003 O TYR A 251 41.382 15.273 125.436 1.00 28.23 ATOM 2004 N LEU A 252 41.067 12.930 122.293 1.00 25.74 ATOM 2005 CB LEU A 252 41.067 12.930 122.293 1.00 25.74 ATOM 2006 CB LEU A 252 41.067 12.930 122.293 1.00 25.74 ATOM 2007 CG LEU A 252 41.057 12.930 122.293 1.00 25.74 ATOM 2008 CD1 LEU A 252 41.057 12.930 122.293 1.00 25.74 ATOM 2009 CD2 LEU A 252 42.842 14.057 12.930 122.293 1.00 25.74 ATOM 2009 CD2 LEU A 252 42.842 14.057 12.930 122.293 1.00 27.67 ATOM 2010 C LEU A 252 42.842 14.638 121.932 1.00 27.53 ATOM 2011 O LEU A 252 42.842 14.638 121.932 1.00 27.53 ATOM 2011 O LEU A 253 44.075 14.176 122.078 1.00 24.42 ATOM 2012 N LEU A 253 44.075 14.176 122.078 1.00 24.42 ATOM 2013 CA LEU A 253 44.075 14.176 122.078 1.00 24.60 ATOM 2014 CB LEU A 253 47.456 15.880 121.323 1.00 21.05 ATOM 2015 CG LEU A 253 47.456 15.880 121.323 1.00 21.05 ATOM 2016 CD1 LEU A 253 47.105 16.833 120.175 1.00 23.05 ATOM 2017 CD2 LEU A 253 46.329 12.516 121.303 1.00 22.15 ATOM 2018 C LEU A 253 46.329 12.516 121.303 1.00 22.13 ATOM 2019 O LEU A 253 46.329 12.516 121.303 1.00 22.13 ATOM 2020 N GLN A 254 46.417 12.150 118.552 1.00 19.84 ATOM 2021 CG GLN A 254 46.477 12.150 118.552 1.00 19.84 ATOM 2022 CB GLN A 254 46.477 12.150 118.552 1.00 19.84 ATOM 2022 CB GLN A 254 46.712 9.937 114.961 1.00 31.02 2.15 ATOM 2023 CG GLN A 254 46.712 9.937 114.961 1.00 31.02 2.35 ATOM 2033 CD LEU A 255 50.231 12.079 118.383 1.00 17.04 ATOM 2025 CG LEU A 255 50.231 12.079 118.383 1.00 17.04 ATOM 2025 CG LEU A 255 50.231 12.079 118.383 1.00 17.04 ATOM 2025 CG LEU A 255 50.231 12.079 118.383 1.00 17.04 ATOM 2025 CG LEU A 255 50.231 12.079 118.383 1.00 17.04 ATOM 2025 CG LEU A 255 50.231 12.079 118.383 1.00 17.04 ATOM 2025 CG LEU A 255 50.231 12.079 118.383 1.00 17.04 ATOM 2035 CG LEU A 255 50.231 12.079 118.383 1.00 17.04 ATOM 2035 CG LEU A 255 50.231 12.079 118.383 1.00 17.04 ATOM 2036 CG LEU A 255 50.231 12.079 118.383 1.00 17.04 ATOM 2035 CG			CEZ TYR A 251				
ATOM 2001 OH TRK A 251	MOTA					18 854 126.15	
ATOM 2002 C TYR A 251	MOTA					15 731 124 45	
ATOM 2004 N LEU A 251 ATOM 2005 CA LEU A 252 ATOM 2006 CB LEU A 252 ATOM 2007 CG LEU A 252 ATOM 2007 CG LEU A 252 ATOM 2008 CD1 LEU A 252 ATOM 2009 CD2 LEU A 252 ATOM 2009 CD2 LEU A 252 ATOM 2010 C LEU A 252 ATOM 2011 O LEU A 252 ATOM 2011 O LEU A 253 ATOM 2012 N LEU A 253 ATOM 2013 CA LEU A 253 ATOM 2014 CB LEU A 253 ATOM 2015 CG LEU A 253 ATOM 2016 CD1 LEU A 253 ATOM 2017 CD LEU A 253 ATOM 2018 C LEU A 253 ATOM 2017 CG LEU A 253 ATOM 2017 CG LEU A 253 ATOM 2018 C LEU A 253 ATOM 2017 CG LEU A 253 ATOM 2018 C LEU A 253 ATOM 2017 CG LEU A 253 ATOM 2017 CG LEU A 253 ATOM 2018 C LEU A 253 ATOM 2019 O LEU A 253 ATOM 2019 O LEU A 254 ATOM 2020 N GLN A 254 ATOM 2021 CA GLN A 254 ATOM 2022 CB GLN A 254 ATOM 2023 CG GLN A 254 ATOM 2023 CG GLN A 254 ATOM 2024 CD GLN A 254 ATOM 2025 CEI GLN A 255 ATOM 2026 NE2 GLN A 254 ATOM 2027 C GLN A 254 ATOM 2028 O LEU A 255 ATOM 2028 O LEU A 255 ATOM 2030 CA LEU A 255 ATOM 2031 CB LEU A 255 ATOM 2026 NE2 GLN A 254 ATOM 2027 C GLN A 254 ATOM 2028 O LEU A 255 ATOM 2030 CA LEU A 255 ATOM 2031 CB LEU A 255 ATOM 2031 CB LEU A 255 ATOM 2032 CG LEU A 255 ATOM 2034 CD LEU A 255 ATOM 2035 CA LEU A 255 ATOM 2036 CA LEU A 255 ATOM 2037 N LEU A 255 ATOM 2038 CA LEU A 255 ATOM 2038 CA LEU A 255 ATOM 2039 C LEU A 255 ATOM 2034 CD LEU A 255 ATOM 2035 CA LEU A 255 ATOM 2036 CA LEU A 255 ATOM 2037 N LEU A 255 ATOM 2038 CA LEU A 255 ATOM 2039 C LEU A 255 ATOM 2030 CA LEU A 255 ATOM 2031 CB LEU A 255 ATOM 2034 CD LEU A 255 ATOM 2036 CA LEU A 255 ATOM 2037 N GLY A 256 ATOM 2038 CA LEU A 255 ATOM 2034 CD LEU A 255 ATOM 2036 CA LEU A 255 ATOM 2037 N GL	MOTA		C TYR A 251				
ATOM 2004 N LEU A 252	MOTA	2003				15 222 123 22	
ATOM 2006 CB LEU A 252 ATOM 2007 CG LEU A 252 ATOM 2008 CD1 LEU A 252 ATOM 2008 CD1 LEU A 252 ATOM 2009 CD2 LEU A 252 ATOM 2010 C LEU A 252 ATOM 2011 O LEU A 252 ATOM 2011 O LEU A 253 ATOM 2012 N LEU A 253 ATOM 2013 CA LEU A 253 ATOM 2014 CB LEU A 253 ATOM 2015 CG LEU A 253 ATOM 2016 CG LEU A 253 ATOM 2017 CD2 LEU A 253 ATOM 2018 C LEU A 253 ATOM 2016 CG LEU A 253 ATOM 2017 CD2 LEU A 253 ATOM 2018 C LEU A 253 ATOM 2018 C LEU A 253 ATOM 2019 O LEU A 253 ATOM 2018 C LEU A 253 ATOM 2019 C LEU A 253 ATOM 2010 C LEU A 253 ATOM 2011 CO LEU A 253 ATOM 2010 CG LEU A 253 ATOM 2011 CD1 LEU A 253 ATOM 2011 CD1 LEU A 253 ATOM 2012 LEU A 253 ATOM 2015 CG LEU A 253 ATOM 2016 CD1 LEU A 253 ATOM 2017 CD2 LEU A 253 ATOM 2018 C LEU A 253 ATOM 2019 O LEU A 253 ATOM 2019 O LEU A 253 ATOM 2010 CG GLN A 254 ATOM 2021 CA GLN A 254 ATOM 2021 CA GLN A 254 ATOM 2022 CG GLN A 254 ATOM 2023 CG GLN A 254 ATOM 2024 CD GLN A 254 ATOM 2025 OEI GLN A 254 ATOM 2026 NE2 GLN A 254 ATOM 2027 C GLN A 254 ATOM 2026 NE2 GLN A 254 ATOM 2027 C GLN A 254 ATOM 2027 C GLN A 254 ATOM 2028 O GLN A 254 ATOM 2029 N LEU A 255 ATOM 2030 CA LEU A 255 ATOM 2031 CB LEU A 255 ATOM 2031 CB LEU A 255 ATOM 2032 CG GLN A 254 ATOM 2033 CA LEU A 255 ATOM 2034 CD2 LEU A 255 ATOM 2037 C GLN A 254 ATOM 2038 C A LEU A 255 ATOM 2039 C GLN A 254 ATOM 2030 CA LEU A 255 ATOM 2031 CB LEU A 255 ATOM 2033 CD1 LEU A 255 ATOM 2034 CD2 LEU A 255 ATOM 2037 N GLY A 256 ATOM 2038 CA LEU A 255 ATOM 2039 C GLEU A 255 ATOM 2039 C GLY A 256 ATOM 2042 CA THR A 257 ATOM 2042 CA THR A 257 ATOM 2044 CG1 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2046 CG1 THR A 257 ATOM 2046 CG1 THR A 257 ATOM 2046 CG1 THR A 257 ATOM 2047 CG1 THR A 257 ATOM 2046 CG1 THR A 257 ATOM 2046 CG2 THR A 257 ATOM 2046 CG1 THR A 257 ATOM 2046 CG1 THR A 257 ATOM 2046 CG1 THR A 257	MOTA	2004	N LEU A 252			13.222 123.22	
ATOM 2006 CB LEU A 252		2005	CA LEU A 252				
ATOM 2008 CD1 LEU A 252 40.266 ATOM 2009 CD2 LEU A 252 39.122 12.753 123.868 1.00 27.67 ATOM 2010 C LEU A 252 42.842 14.638 12.932 1.00 32.00 ATOM 2011 O LEU A 252 42.528 15.444 121.055 1.00 24.42 ATOM 2012 N LEU A 253 44.075 14.176 122.078 1.00 24.60 ATOM 2013 CA LEU A 253 45.157 14.599 121.204 1.00 25.04 ATOM 2014 CB LEU A 253 46.176 15.400 122.017 1.00 22.48 ATOM 2015 CG LEU A 253 47.456 15.880 121.323 1.00 21.05 ATOM 2016 CD1 LEU A 253 47.105 16.833 120.175 1.00 23.05 ATOM 2017 CD2 LEU A 253 47.105 16.833 120.175 1.00 23.05 ATOM 2018 C LEU A 253 48.348 16.578 122.360 1.00 16.40 ATOM 2019 O LEU A 253 45.822 13.374 120.580 1.00 22.11 ATOM 2020 N GLN A 254 45.821 13.287 119.248 1.00 22.33 ATOM 2021 CA GLN A 254 45.542 11.731 117.348 1.00 22.33 ATOM 2022 CE GLN A 254 46.075 12.038 115.963 1.00 33.69 ATOM 2023 CG GLN A 254 46.075 12.038 115.963 1.00 33.69 ATOM 2024 CD GLN A 254 46.075 12.038 115.963 1.00 33.69 ATOM 2025 OE1 GLN A 254 46.075 12.038 115.963 1.00 33.69 ATOM 2026 NE2 GLN A 254 46.075 12.038 115.963 1.00 33.69 ATOM 2027 C GLN A 254 46.075 12.038 115.963 1.00 33.69 ATOM 2028 O GLN A 254 46.075 12.038 115.963 1.00 33.69 ATOM 2029 N LEU A 255 46.702 9.937 114.961 1.00 33.69 ATOM 2020 N LEU A 255 47.073 11.017 115.453 1.00 21.04 ATOM 2020 N LEU A 255 46.712 9.937 114.961 1.00 33.69 ATOM 2021 CB LEU A 255 50.213 12.079 118.383 1.00 17.66 ATOM 2023 CG LEU A 255 50.213 12.079 118.383 1.00 17.66 ATOM 2030 CA LEU A 255 50.213 12.079 118.383 1.00 17.64 ATOM 2031 CB LEU A 255 50.213 12.079 118.383 1.00 17.04 ATOM 2033 CD1 LEU A 255 50.543 10.928 116.59 1.00 22.75 ATOM 2034 CD2 LEU A 255 50.543 10.928 116.59 1.00 22.75 ATOM 2039 C GLV A 256 50.543 10.928 116.59 1.00 22.75 ATOM 2034 CD2 LEU A 255 50.543 10.928 117.016 1.00 22.75 ATOM 2034 CD2 LEU A 255 50.543 10.928 116.59 1.00 22.75 ATOM 2034 CD2 LEU A 255 50.543 10.928 116.59 1.00 22.75 ATOM 2034 CD2 LEU A 255 50.636 10.721 115.126 1.00 24.27 ATOM 2034 CD2 LEU A 255 50.636 10.721 115.126 1.00 24.27 ATOM 2034 CD2 LEU A 255 50.544 10.928 116.929 117.016 1.00 17.2		2006	CB LEU A 252				
ATOM 2008 CD1 LEU A 252 39.122 12.753 3.000 22.00 ATOM 2010 C LEU A 252 42.842 14.638 121.932 1.00 27.53 ATOM 2011 O LEU A 252 42.528 15.444 121.055 1.00 24.42 ATOM 2012 N LEU A 253 44.075 14.176 122.078 1.00 24.60 ATOM 2013 CA LEU A 253 45.157 14.599 121.204 1.00 25.04 ATOM 2015 CG LEU A 253 45.157 14.599 121.204 1.00 21.05 ATOM 2016 CD1 LEU A 253 47.456 15.880 121.323 1.00 21.05 ATOM 2016 CD1 LEU A 253 47.456 15.880 121.323 1.00 21.05 ATOM 2017 CD2 LEU A 253 48.348 16.578 122.360 10.0 16.40 ATOM 2019 O LEU A 253 46.329 12.516 121.303 1.00 22.11 ATOM 2010 O LEU A 253 46.329 12.516 121.303 1.00 22.11 ATOM 2020 N GLN A 254 45.811 13.287 119.248 1.00 23.09 ATOM 2022 CE GLN A 254 46.417 12.150 118.552 1.00 19.84 ATOM 2022 CE GLN A 254 46.417 12.150 118.552 1.00 19.84 ATOM 2022 CE GLN A 254 46.075 12.038 115.963 1.00 33.69 ATOM 2023 CG GLN A 254 46.075 12.038 115.963 1.00 33.69 ATOM 2025 CEI GLN A 254 46.075 12.038 115.963 1.00 33.69 ATOM 2025 CEI GLN A 254 46.075 12.038 115.963 1.00 33.69 ATOM 2025 CEI GLN A 254 46.075 12.038 115.963 1.00 31.26 ATOM 2020 N LEU A 255 48.338 11.349 115.574 1.00 31.26 ATOM 2020 N LEU A 255 48.338 11.349 115.574 1.00 31.26 ATOM 2020 N LEU A 255 48.338 11.349 115.574 1.00 31.26 ATOM 2023 CG GLN A 254 46.075 12.038 115.963 1.00 22.46 ATOM 2032 CG LEU A 255 50.213 12.079 118.383 1.00 17.06 ATOM 2032 CG LEU A 255 50.213 12.079 118.383 1.00 17.06 ATOM 2031 CB LEU A 255 50.213 12.079 118.383 1.00 17.06 ATOM 2031 CB LEU A 255 50.277 13.196 120.670 1.00 21.34 ATOM 2034 CD2 LEU A 255 50.277 13.196 120.670 1.00 22.75 ATOM 2037 N GLY A 256 50.543 10.928 116.259 1.00 24.14 ATOM 2040 N THR A 257 50.648 9.582 115.511 1.00 17.48 ATOM 2041 N THR A 257 50.048 9.582 115.511 1.00 17.44 ATOM 2044 CG THR A 257 50.048 9.582 115.511 1.00 17.48 ATOM 2044 CG THR A 257 50.048 9.582 115.511 1.00 17.48 ATOM 2044 CG THR A 257 50.048 9.582 115.511 1.00 17.48 ATOM 2044 CG THR A 257 55.048 9.582 115.511 1.00 17.48 ATOM 2044 CG THR A 257 55.048 9.582 115.511 1.00 17.48 ATOM 2044 CG THR A 257 55.048 9.582 115.501 1.00		2007	CG LEU A 252			12.001 123.22	
ATOM 2019 CD2 LEU A 252 339.727 10.835 122.414 1.00 27.53 ATOM 2011 0 LEU A 252 42.842 14.638 121.932 1.00 27.53 ATOM 2013 CA LEU A 253 44.075 14.176 122.078 1.00 24.60 ATOM 2013 CA LEU A 253 45.157 14.599 121.204 1.00 25.04 ATOM 2015 CG LEU A 253 46.176 15.840 122.017 1.00 22.48 ATOM 2016 CD1 LEU A 253 47.456 15.880 121.323 10.00 21.05 ATOM 2016 CD1 LEU A 253 47.456 15.880 121.323 10.00 21.05 ATOM 2017 CD2 LEU A 253 47.456 15.880 121.323 10.00 23.05 ATOM 2018 C LEU A 253 48.348 16.578 122.360 1.00 16.40 10.00		2008	CD1 LEU A 252			12.753 123.86	
ATOM 2011 O LEU A 252			CD2 LEU A 252			10.835 122.43	
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ATOM 2012 N LEU A 253 44.075 14.176 122.078 1.00 25.04 ATOM 2013 CA LEU A 253 45.157 14.599 121.204 1.00 25.04 ATOM 2014 CB LEU A 253 46.176 15.800 121.323 1.00 21.05 ATOM 2016 CD1 LEU A 253 47.105 16.833 120.175 1.00 23.05 ATOM 2017 CD2 LEU A 253 48.348 16.578 122.360 1.00 16.40 ATOM 2017 CD2 LEU A 253 48.348 16.578 122.360 1.00 16.40 ATOM 2019 O LEU A 253 46.329 12.516 121.303 1.00 22.33 ATOM 2019 O LEU A 253 46.329 12.516 121.303 1.00 22.33 ATOM 2020 N GLN A 254 45.811 13.287 119.248 1.00 22.33 ATOM 2021 CA GLN A 254 46.417 12.150 118.552 1.00 19.84 ATOM 2022 CB GLN A 254 46.417 12.150 118.552 1.00 19.84 ATOM 2022 CB GLN A 254 46.075 12.038 115.963 1.00 33.49 ATOM 2024 CD GLN A 254 46.712 9.937 114.961 1.00 33.69 ATOM 2022 C GLN A 254 47.073 11.017 115.453 1.00 31.26 ATOM 2022 C GLN A 254 47.831 12.576 118.153 1.00 22.46 ATOM 2022 C GLN A 254 47.831 12.576 118.153 1.00 22.46 ATOM 2029 N LEU A 255 48.338 11.349 115.574 1.00 31.02 ATOM 2030 CA LEU A 255 48.804 11.781 118.590 1.00 17.66 ATOM 2031 CB LEU A 255 50.291 11.017 118.383 1.00 17.04 ATOM 2031 CB LEU A 255 50.291 11.017 118.383 1.00 17.04 ATOM 2033 CD1 LEU A 255 50.291 12.096 122.107 1.00 25.02 ATOM 2034 CD2 LEU A 255 50.291 12.996 122.107 1.00 25.02 ATOM 2038 CA GLEU A 255 50.291 12.996 122.107 1.00 25.02 ATOM 2038 CA GLEU A 255 50.291 12.996 122.107 1.00 21.99 ATOM 2038 CA GLEU A 255 50.291 11.699 117.476 1.00 118.30 ATOM 2039 C GLEU A 255 50.291 10.093 115.330 1.00 22.75 ATOM 2038 CA GLY A 256 50.291 10.093 115.330 1.00 22.75 ATOM 2038 CA GLY A 256 50.291 10.093 115.330 1.00 22.75 ATOM 2039 C GLY A 256 50.686 9.993 114.948 1.00 24.27 ATOM 2040 N THR A 257 50.680 9.993 114.948 1.00 24.27 ATOM 2044 OG1 THR A 257 56.009 8.248 115.014 1.00 17.48 ATOM 2044 OG1 THR A 257 56.009 8.248 115.004 1.00 17.48 ATOM 2044 OG1 THR A 257 55.009 8.248 115.004 1.00 17.48 ATOM 2044 OG1 THR A 257 55.009 8.248 115.004 1.00 15.73 ATOM 2044 OG1 THR A 257 55.009 8.248 115.004 1.00 15.73 ATOM 2044 OG1 THR A 257 55.403 10.922 117.016 1.00 22.98			O LEU A 252			15.444 121.0	
ATOM 2013 CA LEU A 253						14.176 122.0	
ATOM 2014 CB LEU A 253					45.157	14.599 121.20	
ATOM 2015 CG LEU A 253			CB LEU A 253.		46.176	15.400 122.0	
ATOM 2016 CD1 LEU A 253			CG LEU A 253		47.456	15.880 121.33	
ATOM 2017 CD2 LEU A 253			CD1 LEU A 253		47.105	16.833 120.1	
ATOM 2018 C LEU A 253			CD2 LEU A 253		48.348	16.578 122.3	
ATOM 2019 O LEU A 253						13.374 120.5	
ATOM 2020 N GLN A 254					46.329	12.516 121.3	
ATOM 2021 CA GLN A 254 ATOM 2022 CB GLN A 254 ATOM 2023 CG GLN A 254 ATOM 2024 CD GLN A 254 ATOM 2025 OE1 GLN A 254 ATOM 2025 OE1 GLN A 254 ATOM 2026 NE2 GLN A 254 ATOM 2027 C GLN A 254 ATOM 2028 O GLN A 254 ATOM 2029 N LEU A 255 ATOM 2030 CA LEU A 255 ATOM 2031 CB LEU A 255 ATOM 2032 CG LEU A 255 ATOM 2033 CD1 LEU A 255 ATOM 2034 CD2 LEU A 255 ATOM 2035 C LEU A 255 ATOM 2036 O LEU A 255 ATOM 2037 N GLY A 256 ATOM 2038 CA GLY A 256 ATOM 2039 C GLY A 256 ATOM 2039 C GLY A 256 ATOM 2030 CA LEU A 255 ATOM 2031 CB LEU A 255 ATOM 2032 CG LEU A 255 ATOM 2033 CD1 LEU A 255 ATOM 2034 CD2 LEU A 255 ATOM 2036 O LEU A 255 ATOM 2037 N GLY A 256 ATOM 2038 CA GLY A 256 ATOM 2038 CA GLY A 256 ATOM 2039 C GLY A 256 ATOM 2038 CA GLY A 256 ATOM 2038 CA GLY A 256 ATOM 2039 C GLY A 256 ATOM 2040 O GLY A 256 ATOM 2040 O GLY A 256 ATOM 2040 CB THR A 257 ATOM 2041 N THR A 257 ATOM 2042 CA THR A 257 ATOM 2044 OG1 THR A 257 ATOM 2044 OG1 THR A 257 ATOM 2044 OG1 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2046 CG2 THR A 257 ATOM 2047 CG2 THR A 257 ATOM 2048 CG2 THR A 257 ATOM 2049 OG1 THR A 257 ATOM 2049 OG1 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2046 CG2 THR A 257 ATOM 2046 CG2 THR A 257 ATOM 2047 CG2 THR A 257 ATOM 2048 CG2 THR A 257 ATOM 2049 OG1 THR A 257 ATOM 2049 OG1 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2046 CG2 THR A 257 ATOM 2047 CG2 THR A 257 ATOM 2046 CG2 THR A 257 ATOM 2047 CG2 THR A 257 ATOM 2048 CG2 THR A 257 ATOM 2049 CG2 THR A 257 ATOM 2045 CG2 THR A 257 ATOM			N GLN A 254			13.287 119.2	
ATOM 2022 CB GLN A 254					46.417		
ATOM 2023 CG GLN A 254 46.075 12.038 115.963 1.00 35.49 ATOM 2024 CD GLN A 254 47.073 11.017 115.453 1.00 31.26 ATOM 2025 OE1 GLN A 254 46.712 9.937 114.961 1.00 33.69 TOM 2026 NE2 GLN A 254 48.338 11.349 115.574 1.00 31.02 1.00 ATOM 2027 C GLN A 254 48.034 13.599 117.478 1.00 17.56 ATOM 2028 O GLN A 254 48.034 13.599 117.478 1.00 17.56 ATOM 2030 CA LEU A 255 50.213 12.079 118.383 1.00 17.04 ATOM 2031 CB LEU A 255 50.213 12.079 118.383 1.00 17.04 ATOM 2032 CG LEU A 255 50.277 13.196 120.670 1.00 25.02 ATOM 2033 CD1 LEU A 255 50.277 13.196 120.670 1.00 25.02 ATOM 2034 CD2 LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2035 C LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2035 C LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2036 O LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2037 N GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2038 CA GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2038 CA GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2039 C GLY A 256 52.660 10.721 115.126 1.00 24.09 ATOM 2034 CB THR A 257 53.680 9.903 114.948 1.00 19.15 ATOM 2041 N THR A 257 55.014 10.440 114.765 1.00 17.48 ATOM 2044 OG1 THR A 257 56.048 9.582 115.511 1.00 17.48 ATOM 2044 OG1 THR A 257 56.048 9.582 115.511 1.00 17.48 ATOM 2044 OG1 THR A 257 56.048 9.582 115.511 1.00 17.48 ATOM 2044 OG1 THR A 257 56.048 9.582 115.501 1.00 17.48 ATOM 2044 OG1 THR A 257 56.048 9.582 115.001 1.00 17.48 ATOM 2044 OG1 THR A 257 56.048 9.582 115.001 1.00 17.48 ATOM 2044 OG1 THR A 257 56.048 9.582 115.001 1.00 17.48 ATOM 2044 OG1 THR A 257 56.048 9.582 115.001 1.00 17.48 ATOM 2044 OG1 THR A 257 56.048 9.582 115.001 1.00 17.48 ATOM 2044 OG1 THR A 257 56.048 9.582 115.001 1.00 17.48 ATOM 2045 CG2 THR A 257 56.048 9.582 115.001 1.00 17.48 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 17.48 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 17.48 ATOM 2045 CG2 THR A 257 55.403 10.527 113.290 1.00 22.98					45.542	11.731 117.3	
ATOM 2024 CD GLN A 254			CC GIN A 254			12.038 115.9	63 1.00 35.49
ATOM 2025 OE1 GLN A 254			CD CIN 2 254			11.017 115.4	53 1.00 31.26
TOM 2026 NE2 GLN A 254 48.338 11.349 115.574 1.00 31.02 2.46 ATOM 2027 C GLN A 254 47.831 12.576 118.153 1.00 22.46 ATOM 2029 N LEU A 255 48.804 11.781 118.590 1.00 17.64 ATOM 2031 CB LEU A 255 50.213 12.079 118.383 1.00 17.04 ATOM 2032 CG LEU A 255 50.277 13.196 120.670 1.00 25.02 ATOM 2033 CD1 LEU A 255 50.732 12.996 122.107 1.00 21.99 ATOM 2034 CD2 LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2035 C LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2036 O LEU A 255 50.636 14.578 120.149 1.00 18.73 ATOM 2037 N GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2038 CA GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2038 CA GLY A 256 50.543 10.928 116.259 1.00 24.09 ATOM 2039 C GLY A 256 50.543 10.928 116.259 1.00 24.09 ATOM 2039 C GLY A 256 52.805 11.945 115.134 1.00 19.15 ATOM 2040 O GLY A 256 52.805 11.945 115.134 1.00 19.15 ATOM 2040 CB THR A 257 55.014 10.440 114.765 1.00 21.32 ATOM 2042 CA THR A 257 55.014 10.440 114.765 1.00 21.32 ATOM 2043 CB THR A 257 56.048 9.582 115.511 1.00 17.24 ATOM 2044 OG1 THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2044 OG1 THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2044 OG1 THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG2 THR A 257 55.403 10.527 113.290 1.00 22.98			or1 CIN 3 254			9.937 114.9	61 1.00 33.69
ATOM 2027 C GLN A 254 47.831 12.576 118.153 1.00 22.46 48.07 2028 O GLN A 254 48.034 13.599 117.478 1.00 17.56 48.07 2029 N LEU A 255 48.804 11.781 118.590 1.00 17.64 ATOM 2030 CA LEU A 255 50.213 12.079 118.383 1.00 17.04 ATOM 2031 CB LEU A 255 50.894 12.136 119.750 1.00 14.75 ATOM 2032 CG LEU A 255 50.277 13.196 120.670 1.00 25.02 ATOM 2033 CD1 LEU A 255 50.732 12.996 122.107 1.00 21.99 ATOM 2034 CD2 LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2035 C LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2036 O LEU A 255 50.636 14.578 120.149 1.00 18.73 ATOM 2037 N GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2038 CA GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2039 C GLY A 256 50.543 10.928 116.259 1.00 24.09 ATOM 2039 C GLY A 256 50.543 10.928 115.134 1.00 19.15 ATOM 2040 O GLY A 256 52.865 11.945 115.134 1.00 19.15 ATOM 2040 CG GLY A 257 55.048 9.903 114.948 1.00 24.14 ATOM 2041 N THR A 257 55.014 10.440 114.765 1.00 21.32 ATOM 2043 CB THR A 257 56.048 9.582 115.511 1.00 17.24 ATOM 2045 CG THR A 257 55.009 8.248 115.004 1.00 17.48 ATOM 2045 CG THR A 257 55.403 10.527 113.290 1.00 22.98						11.349 115.5	74 1.00 31.02
ATOM 2028 O GLN A 254						12.576 118.1	53 1.00 22.46
ATOM 2029 N LEU A 255 50.213 12.079 118.383 1.00 17.04 ATOM 2030 CA LEU A 255 50.213 12.079 118.383 1.00 17.04 ATOM 2031 CB LEU A 255 50.894 12.136 119.750 1.00 14.75 ATOM 2032 CG LEU A 255 50.277 13.196 120.670 1.00 25.02 ATOM 2033 CD1 LEU A 255 50.732 12.996 122.107 1.00 21.99 ATOM 2034 CD2 LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2035 C LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2036 O LEU A 255 51.023 11.169 117.476 1.00 21.34 ATOM 2037 N GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2038 CA GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2039 C GLY A 256 51.291 10.093 115.330 1.00 24.09 ATOM 2039 C GLY A 256 52.660 10.721 115.126 1.00 24.27 ATOM 2040 O GLY A 256 52.805 11.945 115.134 1.00 19.15 ATOM 2041 N THR A 257 53.680 9.903 114.948 1.00 19.15 ATOM 2042 CA THR A 257 55.014 10.440 114.765 1.00 21.32 ATOM 2043 CB THR A 257 55.014 10.440 114.765 1.00 21.32 ATOM 2045 CG THR A 257 55.028 9.582 115.511 1.00 17.24 ATOM 2045 CG THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG THR A 257 55.728 9.532 117.016 1.00 22.98			C GLN A 234			13.599 117.4	78 1.00 17.56
ATOM 2030 CA LEU A 255 50.213 12.079 118.383 1.00 17.04 ATOM 2031 CB LEU A 255 50.894 12.136 119.750 1.00 14.75 ATOM 2032 CG LEU A 255 50.277 13.196 120.670 1.00 25.02 ATOM 2033 CD1 LEU A 255 50.732 12.996 122.107 1.00 21.99 ATOM 2034 CD2 LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2035 C LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2036 O LEU A 255 51.023 11.169 117.476 1.00 21.34 ATOM 2037 N GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2038 CA GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2039 C GLY A 256 50.543 10.928 115.330 1.00 24.09 ATOM 2039 C GLY A 256 52.805 11.945 115.134 1.00 19.15 ATOM 2040 O GLY A 256 52.805 11.945 115.134 1.00 19.15 ATOM 2040 CB THR A 257 55.014 10.440 114.765 1.00 24.27 ATOM 2042 CA THR A 257 56.048 9.582 115.511 1.00 17.24 ATOM 2043 CB THR A 257 56.048 9.582 115.501 1.00 21.32 ATOM 2045 CG THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG THR A 257 55.728 9.532 117.016 1.00 22.98			O GLN A 254			11 781 118.5	90 1.00 17.64
ATOM 2031 CB LEU A 255 ATOM 2032 CG LEU A 255 ATOM 2033 CD1 LEU A 255 ATOM 2034 CD2 LEU A 255 ATOM 2035 C LEU A 255 ATOM 2036 O LEU A 255 ATOM 2037 N GLY A 256 ATOM 2038 CA GLY A 256 ATOM 2039 C GLY A 256 ATOM 2040 O GLY A 256 ATOM 2041 N THR A 257 ATOM 2042 CA THR A 257 ATOM 2043 CB THR A 257 ATOM 2044 OG1 THR A 257 ATOM 2045 CG2 THR A 257 S5.403 10.527 113.290 1.00 22.98			N LEU A 255			12 079 118.3	
ATOM 2032 CG LEU A 255 50.277 13.196 120.670 1.00 25.02 ATOM 2033 CD1 LEU A 255 50.732 12.996 122.107 1.00 21.99 ATOM 2034 CD2 LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2035 C LEU A 255 51.023 11.169 117.476 1.00 21.34 ATOM 2036 O LEU A 255 52.089 10.705 117.875 1.00 18.73 ATOM 2037 N GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2038 CA GLY A 256 51.291 10.093 115.330 1.00 24.09 ATOM 2039 C GLY A 256 52.660 10.721 115.126 1.00 24.27 ATOM 2040 O GLY A 256 52.805 11.945 115.134 1.00 19.15 ATOM 2041 N THR A 257 53.680 9.903 114.948 1.00 24.14 ATOM 2042 CA THR A 257 55.014 10.440 114.765 1.00 21.32 ATOM 2043 CB THR A 257 56.048 9.582 115.511 1.00 17.24 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 22.98						12 136 119.7	
ATOM 2032 CD1 LEU A 255 50.732 12.996 122.107 1.00 21.99 ATOM 2034 CD2 LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2035 C LEU A 255 51.023 11.169 117.476 1.00 21.34 ATOM 2036 O LEU A 255 52.089 10.705 117.875 1.00 18.73 ATOM 2037 N GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2038 CA GLY A 256 51.291 10.093 115.330 1.00 24.09 ATOM 2039 C GLY A 256 52.660 10.721 115.126 1.00 24.27 ATOM 2040 O GLY A 256 52.805 11.945 115.134 1.00 19.15 ATOM 2041 N THR A 257 53.680 9.903 114.948 1.00 24.14 ATOM 2042 CA THR A 257 55.014 10.440 114.765 1.00 21.32 ATOM 2043 CB THR A 257 56.048 9.582 115.511 1.00 17.24 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 22.98	MOTA					13 196 120 6	
ATOM 2034 CD2 LEU A 255 50.636 14.578 120.149 1.00 18.30 ATOM 2035 C LEU A 255 51.023 11.169 117.476 1.00 21.34 ATOM 2036 O LEU A 255 52.089 10.705 117.875 1.00 18.73 ATOM 2037 N GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2038 CA GLY A 256 51.291 10.093 115.330 1.00 24.09 ATOM 2039 C GLY A 256 52.660 10.721 115.126 1.00 24.27 ATOM 2040 O GLY A 256 52.805 11.945 115.134 1.00 19.15 ATOM 2041 N THR A 257 53.680 9.903 114.948 1.00 24.14 ATOM 2042 CA THR A 257 55.014 10.440 114.765 1.00 21.32 ATOM 2043 CB THR A 257 56.048 9.582 115.511 1.00 17.24 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG2 THR A 257 55.403 10.527 113.290 1.00 22.98	ATOM		CG LEU A 255			12 096 122 1	
ATOM 2034 CD2 LEU A 255 ATOM 2035 C LEU A 255 ATOM 2036 O LEU A 255 ATOM 2037 N GLY A 256 ATOM 2038 CA GLY A 256 ATOM 2039 C GLY A 256 ATOM 2040 O GLY A 256 ATOM 2040 O GLY A 256 ATOM 2041 N THR A 257 ATOM 2042 CA THR A 257 ATOM 2043 CB THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2046 CG2 THR A 257 ATOM 2046 CG2 THR A 257 ATOM 2047 CG2 THR A 257 ATOM 2048 CG2 THR A 257 ATOM 2048 CG2 THR A 257 ATOM 2049 CG2 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2046 CG2 THR A 257 ATOM 2047 CG2 THR A 257 ATOM 2048 CG2 THR A 257 ATOM 2049 CG2 THR A 257 ATOM 2045 CG2 THR A 257	MOTA	2033	CD1 LEU A 255			14 570 120 1	
ATOM 2035 C LEU A 255 ATOM 2036 O LEU A 255 52.089 10.705 117.875 1.00 18.73 ATOM 2037 N GLY A 256 ATOM 2038 CA GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2039 C GLY A 256 51.291 10.093 115.330 1.00 24.09 ATOM 2039 C GLY A 256 52.660 10.721 115.126 1.00 24.27 ATOM 2040 O GLY A 256 52.805 11.945 115.134 1.00 19.15 ATOM 2041 N THR A 257 ATOM 2042 CA THR A 257 55.014 10.440 114.765 1.00 21.32 ATOM 2043 CB THR A 257 ATOM 2044 OG1 THR A 257 ATOM 2045 CG2 THR A 257 55.009 8.248 115.004 1.00 17.48 ATOM 2045 CG2 THR A 257 55.403 10.527 113.290 1.00 22.98	MOTA	2034	CD2 LEU A 255			11 160 117 /	
ATOM 2036 O LEU A 255 ATOM 2037 N GLY A 256 50.543 10.928 116.259 1.00 22.75 ATOM 2038 CA GLY A 256 51.291 10.093 115.330 1.00 24.09 ATOM 2039 C GLY A 256 52.660 10.721 115.126 1.00 24.27 ATOM 2040 O GLY A 256 52.805 11.945 115.134 1.00 19.15 ATOM 2041 N THR A 257 ATOM 2042 CA THR A 257 ATOM 2043 CB THR A 257 55.014 10.440 114.765 1.00 21.32 ATOM 2043 CB THR A 257 ATOM 2044 OG1 THR A 257 ATOM 2045 CG2 THR A 257 55.403 10.928 116.259 1.00 22.75 50.543 10.928 116.259 1.00 24.09 1.0		2035	C LEU A 255			10 705 117 9	
ATOM 2037 N GLY A 256 ATOM 2038 CA GLY A 256 51.291 10.093 115.330 1.00 24.09 ATOM 2039 C GLY A 256 52.660 10.721 115.126 1.00 24.27 ATOM 2040 O GLY A 256 ATOM 2041 N THR A 257 ATOM 2042 CA THR A 257 ATOM 2043 CB THR A 257 ATOM 2044 OG1 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2046 CG2 THR A 257 55.403 10.527 113.290 1.00 22.98		2036	O LEU A 255			10.705 117.0	
ATOM 2038 CA GLY À 256 ATOM 2039 C GLY À 256 52.660 10.721 115.126 1.00 24.27 ATOM 2040 O GLY À 256 ATOM 2041 N THR À 257 ATOM 2042 CA THR À 257 ATOM 2043 CB THR À 257 ATOM 2044 OG1 THR À 257 ATOM 2045 CG2 THR À 257 ATOM 2045 CG2 THR À 257 ATOM 2046 CG2 THR À 257 ATOM 2046 CG2 THR À 257 ATOM 2047 CG2 THR À 257 ATOM 2048 CG2 THR À 257 ATOM 2046 CG2 THR À 257 ATOM 2047 CG2 THR À 257 ATOM 2046 CG2 THR À 257 ATOM 2		2037	N GLY A 256			10.928 110.4	
ATOM 2039 C GLY A 256 52.660 10.721 115.126 1.00 24.27 ATOM 2040 O GLY A 256 52.805 11.945 115.134 1.00 19.15 ATOM 2041 N THR A 257 53.680 9.903 114.948 1.00 24.14 ATOM 2042 CA THR A 257 55.014 10.440 114.765 1.00 21.32 ATOM 2043 CB THR A 257 56.048 9.582 115.511 1.00 17.24 ATOM 2044 OG1 THR A 257 56.009 8.248 115.004 1.00 17.48 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 22.98			CA GLY À 256			10.093 115.	
ATOM 2040 O GLY A 256 ATOM 2041 N THR A 257 ATOM 2042 CA THR A 257 ATOM 2043 CB THR A 257 ATOM 2044 OG1 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2045 CG2 THR A 257 ATOM 2046 CG			C GLY A 256			10.721 115.	
ATOM 2041 N THR A 257 53.680 9.903 114.948 1.00 21.32 ATOM 2042 CA THR A 257 55.014 10.440 114.765 1.00 21.32 ATOM 2043 CB THR A 257 56.048 9.582 115.511 1.00 17.24 ATOM 2044 OG1 THR A 257 56.009 8.248 115.004 1.00 17.48 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2045 CG2 THR A 257 55.403 10.527 113.290 1.00 22.98			O GLY A 256				
ATOM 2042 CA THR A 257 55.014 10.440 114.765 1.00 17.24 ATOM 2043 CB THR A 257 56.048 9.582 115.511 1.00 17.24 ATOM 2044 OG1 THR A 257 56.009 8.248 115.004 1.00 17.48 ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 15.73 ATOM 2046 CG2 THR A 257 55.403 10.527 113.290 1.00 22.98			257			9.903 114.9	
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ATOM 2044 OG1 THR A 257 56.009 8.248 113.004 1.00 27.40 arom 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 15.73 arom 2046 CG2 THR A 257 55.403 10.527 113.290 1.00 22.98		_	055			9.582 115.	
ATOM 2045 CG2 THR A 257 55.728 9.532 117.016 1.00 22.98			OG1 THR A 257			8.248 115.	
55.403 10.527 113.290 1.00 22.30						9.532 117.	
AION LOTO CONTRACTOR OF THE STATE OF THE STA					55.403	10.527 113.	290 1.00 22.98
	ATOM	5040					

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ATOM	2047	0	THR A	257	56.517		112.974	1.00 20.39
ATOM	2048	N	ASP A	258	54.493		112.379 110.961	1.00 22.20 1.00 26.56
ATOM	2049	CA	ASP A		54.863	10.229	110.961	1.00 25.06
MOTA	2050	CB	ASP A		53.849 52.415	9.944	110.252	1.00 29.08
MOTA	2051	CG	ASP A		55.222	11.596	110.364	1.00 27.87
ATOM	2052	C 0	ASP A		55.756	11.661	109.254	1.00 25.61
MOTA	2053 2054	OD1	ASP A		52.173	11.070	110.742	1.00 29.86
MOTA MOTA	2055	OD2	ASP A	258	51.513	9.168	109.869	1.00 33.25
ATOM	2056	N	PRO A	259	54.884	12.710	111.045	1.00 31.06 1.00 28.59
ATOM	2057	CD	PRO A		54.019	12.928	112.220 110.469	1.00 28.39
MOTA	2058	CA	PRO A		55.268 54.447	14.993	111.296	1.00 35.06
MOTA	2059	CB	PRO A		54.418	14.320	112.636	1.00 35.26
MOTA	2060 2061	CG C	PRO A		56.790	14.268	110.583	1.00 29.06
MOTA MOTA	2062	Õ	PRO A	259	57.300	15.251	110.044	1.00 29.70
ATOM	2063	N	LEU A	260	57.508	13.389	111.280	1.00 22.68 1.00 28.41
ATOM	2064	CA	LEU A		58.960	13.545 12.576	111.455 112.533	1.00 23.41
ATOM	2065	CB	LEU A		59.461 58.970	12.791	113.969	1.00 20.14
ATOM	2066 2067	CG	LEU A		59.352	11.599	114.826	1.00 22.83
ATOM ATOM	2067	CD2	LEU A		59.592	14.079	114.532	1.00 20.48
ATOM	2069	C	LEU A		59.770	13.344	110.160	1.00 27.95
MOTA	2070	0	LEU A	260	59.407	12.535		1.00 27.03 1.00 26.76
MOTA	2071	N	LEU A		60.874	14.081	110.040 108.865	1.00 26.56
ATOM	2072	CA	LEU A		61.742 63.067		109.137	1.00 23.06
ATOM	2073	CB CG	LEU A		64.131	14.615	108.025	1.00 29.52
MOTA	2074 2075		LEU A		63.642	15.325		1.00 22.68
MOTA MOTA	2076		LEU A	261	65.460	15.219		1.00 26.71 1.00 28.23
ATOM	2077	С	LEU A	261	62.063	12.577 12.198		1.00 26.52
MOTA	2078	0	LEU A		61.880 62.539	12.190	107.283	1.00 28.70
MOTA	2079	N	GLU A		62.938	10.416		1.00 31.76
MOTA	2080 2081	CA CB	GLU A		63.685	9.855	110.351	1.00 29.72
MOTA MOTA	2082	CG	GLU A		64.890	10.683		1.00 31.33
ATOM	2083	CD	GLU A		64.521	11.847		1.00 28.07 1.00 28.75
ATOM	2084	OE1			63.324	12.195 12.424		1.00 26.08
MOTA	2085	OE2	GLU A		65.433 61.847	9.429	108.721	1.00 28.63
MOTA	2086 2087	С 0	GLU A		62.158	8.305	108.350	1.00 29.72
MOTA ATOM	2088	Ŋ	ASP A		60.582		108.785	1.00 28.07
ATOM	2089	CA	ASP A	263	59.513	8.902		1.00 26.85 1.00 25.26
MOTA	2090	CB	ASP A		58.305	9.095	9 109.333 3 109.185	1.00 23.20
MOTA	2091	CG	ASP A		57.261 56.638	7.550	5 110.200	1.00 29.91
ATOM	2092	OD.	L ASP A R ASP A	A 263 A 263	57.042	7.509	108.01	1.00 26.56
MOTA	2093 2094	C C	ASP ASP A	A 263	59.150	9.14	5 106.957	1.00 29.44
MOTA MOTA	2095	ō	ASP A		58.740	10.24	7 106.594	1.00 24.70
ATOM	2096	N	TYR A	A 264	59.303	8.11	1 106.130 9 104.696	1.00 27.51 1.00 33.89
MOTA	2097	CA	TYR A		59.031	3.21	8 103.935	
MOTA	2098	CB	TYR A		59.576 61.059		1 104.092	
MOTA	2099	CG CD	TYR A		61.565	6.08	7 105.199	1.00 54.67
ATOM	2100 2101	CE			62.933	5.87	6 105.351	1.00 55.28
MOTA MOTA	2102	CD:			61.960	7.24	2 103.140	1.00 53.79
MOTA	2103	CE	2 TYR	A 264	63.329		8 103.282	1.00 56.61 1.00 56.22
ATOM	2104	CZ	TYR	A 264	63.809		4 104.388 7 104.524	
MOTA	2105	он	TYR .	A 264	65.161 57.561		4 104.294	1.00 31.33
MOTA	2106	C	TYR	A 264 A 264	57.311			1.00 27.15
ATOM	2107 2108			A 265	56.641	8.05	9 105.172	1.00 26.88
atom atom	2108			A 265	55.244	8.20		
ATOM	2110		LEU	A 265	54.360			
ATOM	2111	CG		A 265	54.663	5.72	6 105.503	
ATOM	2112	CD	1 LEU	A 265	53.464	4.03		

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5.620 103.682 1.00 33.35
                                   54.931
       2113 CD2 LEU A 265
MOTA
                                            9.617 104.921
                                                            1.00 20.81
                                   54.669
                  LEU A 265
       2114
             C
MOTA
                                                            1.00 21.30
                                            9.796 104.979
                                   53.457
                  LEU A 265
       2115
              0
MOTA
                                                            1.00 23.23
                                   55.540 10.622 104.959
                  SER A 266
       2116 N
MOTA
                                                            1.00 26.30
1.00 25.16
                                   55.084 12.011 105.008
                 SER A 266
       2117
             CA
ATOM
                                   54.856 12.502 106.444
                  SER A 266
                                   56.074 12.845 107.084 1.00 22.92
56.147 12.879 104.355 1.00 30.17
57.334 12.555 104.385 1.00 31.65
55.731 13.985 103.757 1.00 31.56
       2118
             CB
MOTA
                 SER A 266
              QG
       2119
MOTA
                  SER A 266
              C
MOTA
       2120
                  SER A 266
       2121
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MOTA
                  LYS A 267
       2122
              N
                                   56.696 14.873 103.140 1.00 27.65
MOTA
                  LYS A 267
              CA
                                   56.140 15.425 101.834
55.815 14.327 100.819
57.039 13.463 100.549
56.745 12.376 99.524
        2123
ATOM
                                                             1.00 30.54
                  LYS A 267
              CB
        2124
                                                             1.00 34.13
MOTA
                 LYS A 267
        2125
              CG
ATOM
                                                             1.00 29.09
             CD LYS A 267
ATOM
        2126
                                            12.376 99.524
                                                              1.00 37.61
                                   56.745
             CE
                  LYS A 267
        2127
MOTA
                                                              1.00 31.91
                                   57.956 11.541 99.272
                  LYS A 267
        2128 NZ
                                                              1.00 30.85
1.00 27.86
MOTA
                                   57.050 16.004 104.107
                   LYS A 267
             С
        2129
MOTA
                                            17.017 103.707
                                   57.624
                   LYS A 267
        2130 0
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MOTA
                                            15.826 105.377
                                   56.688
                   PHE A 268
        2131
              N
ATOM
                                                             1.00 25.34
                                            16.808 106.412
                                    57.009
                  PHE A 268
        2132
              CA
 MOTA
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                                            16.730 107.579
                                    56.014
                  PHE A 268
              CB
        2133
 MOTA
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                                    54.636 17.256 107.257
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              CG
        2134
                                   53.631 17.221 108.216 1.00 28.65
 MOTA
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 MOTA
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                                    54.346 17.806 106.011
              CD2 PHE A 268
        2136
 ATOM
                                                              1.00 25.34
                                            17.728 107.944
                                    52.357
              CE1 PHE A 268
ATOM
        2137
                                                              1.00 23.79
                                            18.315 105.730
                                    53.077
              CE2 PHE A 268
        2138
 MOTA
                                            18.275 106.702
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                                    52.082
              CZ PHE A 268
        2139
 MOTA
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                                            16.470 106.908
                                    58.410
                   PHE A 268
                                                             1.00 28.44
        2140 C
 MOTA
                                            15.299 106.994
                                    58.778
                   PHE A 268
ASN A 269
              0
                                                              1.00 25.81
 MOTA
        2141
                                            17.490 107.230
17.270 107.709
                                    59.194
        2142
              N
                                                              1.00 30.60
 MOTA
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                   ASN A 269
              CA
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 ATOM
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                                                              1.00 31.97
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                   ASN A 269
        2144
              CB
 ATOM
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                                            17.513 105.317
                                    61.392
                   ASN A 269
        2145
              CG
                                                              1.00 33.93
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                                            16.332 105.020
                                    61.235
              OD1 ASN A 269
        2146
 MOTA
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                                    61.446
              ND2 ASN A 269
        2147
                                                              1.00 31.80
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                                            17.843 109.110
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              С
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              N
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1.00 29.62
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                                             17.833 112.074
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 MOTA
                                             18.425 111.297
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19.825 110.790
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2155
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17.365 114.393 1.00 27.08
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SER A 271
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 ATOM
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19.433 115.626
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                                     62.774
                    ASN A 272
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                                     62.854
                    ASN A 272
               CG
         2167
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               OD1 ASN A 272
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  ATOM
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                                              12.969 117.319
                                     61.953
               ND2 ASN A 272
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  ATOM
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                                                               1.00 31.83
                                     61.167
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2172
                    ASN A 272
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                                                                1.00 31.49
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18.837 119.667
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                    VAL A 273
               N
  ATOM
                                                                1.00 31.58
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                    VAL A 273
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1174
                CA
                                              19.709 119.725
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                                     63.069
                    VAL A 273
                CB
                                                               1.00 48.07
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                                     62.804
                CG1 VAL A 273
          2175
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                CG2 VAL A 273
         2176
                                    60.608 19.665 119.234
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  ATOM
                    VAL A 273
               С
                                                                1.00 31.44
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  ATCM
                    VAL A 273
         2178 0
  ATOM
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			. •		
3.0004	2179	N ALA A 274	60.405		1.00 24.15
ATOM	21/9	CA ALA A 274	59.258	20.558 117.455	1.00 26.27
MOTA	2181	CB ALA A 274	59.341	20.700 ===	1.00 21.85
ATOM	2182	C ALA A 274	58.005		1.00 25.68
MOTA	2182	O ALA A 274	56.961		1.00 23.76
MOTA			58.122	18.438 117.680	1.00 25.20
ATOM	2184		57.015	17.538 117.974	1.00 25.89
MOTA	2185		57.449	16.092 117.710	1.00 25.21
MOTA	2186		56.340	15.088 117.870	1.00 28.85
MOTA	2187		55.278	15.064 116.982	1.00 32.60
MOTA	2188	CD1 PHE A 275 CD2 PHE A 275	. 56.365	14.166 118.910	1.00 28.93
MOTA	2189 2190	CE1 PHE A 275	54.248	14.132 117.119	1.00 33.75
ATOM	2190	CE2 PHE A 275	55.343	13.231 119.059	1.00 30.83
MOTA	2191	CZ PHE A 275	54.282	13.214 118.160	1.00 34.19
MOTA	2193	C PHE A 275	56.607	17.712 119.445	1.00 24.63
MOTA	2194	O PHE A 275	55.428	17.877 119.767	1.00 22.40
MOTA	2195	N LEU A 276	57.594	17.673 120.331	1.00 25.45
MOTA MOTA	2196	CA LEU A 276	57.357	17.837 121.766	1.00 27.94
MOTA	2197	CB LEU A 276	58.667	17.692 122.534	1.00 26.11
MOTA	2198	CG LEU A 276	58.651	18.132 124.001	1.00 31.15
ATOM	2199	CD1 LEU A 276	57.609	17.351 124.761	1.00 29.37
MOTA	2200	CD2 LEU A 276	60.033	17.937 124.612	1.00 27.98
ATOM	2201	C LEU A 276	56.770	19.208 122.058	1.00 30.12
MOTA	2202	O LEU A 276	55.822	19.348 122.838	1.00 28.69
ATOM	2203	N LYS A 277	57.353	20.219 121.425	1.00 30.99
ATOM	2204	CA LYS A 277	56.913	21.593 121.603	1.00 27.04
ATOM	2205	CB LYS A 277	57.742	22.516 120.704	1.00 30.38 1.00 36.46
ATOM	2206	CG LYS A 277	57.941	23.934 121.237	1.00 42.73
ATOM	2207	CD LYS A 277	56.633	24.668 121.454	1.00 45.70
MOTA	2208	CE LYS A 277	56.870	26.059 122.049 26.004 123.390	1.00 44.64
MOTA	2209	NZ LYS A 277	57.528		1.00 30.26
ATOM	2210	C LYS A 277	55.432	21.683 121.242 22.284 121.972	1.00 27.55
ATOM	2211	O LYS A 277	54.640	21.078 120.115	1.00 30.15
ATOM	2212	N ALA A 278	55.057	21.096 119.676	1.00 30.51
MOTA	2213	CA ALA A 278	53.662	20.270 118.406	1.00 28.96
MOTA	2214	CB ALA A 278	53.496 52.789	20.527 120.786	1.00 30.99
MOTA	2215	C ALA A 278	51.735	21.067 121.108	1.00 30.36
MOTA	2216	O ALA A 278	53.245	19.422 121.360	1.00 27.85
ATCM	2217	N PHE A 279 CA PHE A 279	52.540	18.759 122.448	1.00 29.62
MOTA	. 2218		53.343	17.534 122.886	1.00 26.83
ATOM	2219	CB PHE A 279 CG PHE A 279	52.786	16.823 124.078	1.00 29.11
ATOM	2220	CD1 PHE A 279	51.556	16.176 124.015	1.00 28.86
MOTA	2222	CD2 PHE A 279	53.505	16.786 125.267	1.00 33.03
MOTA		CE1 PHE A 279	51.054	15.500 125.121	1.00 37.90
MOTA	2223 2224	CE2 PHE A 279	53.011	16.114 126.386	1.00 38.01
MOTA	2225	CZ PHE A 279	51.783	15.469 126.313	1.00 36.23
ATOM ATOM	2226	C PHE A 279	52.362	19.730 123.521	1.00 30.57
ATOM	2227	O PHE A 279	51.265	19.853 124.184	1.00 26.26
ATOM	2228	N ASN A 280	53.432	20.429 123.990	1.00 32.03
ATOM	2229	CA ASN A 280	53.339	21.373 125.104	1.00 30.54
ATOM	2230	CB ASN A 280	54.724	21.819 125.583	1.00 26.79
ATOM	2231	CG ASN A 280	55.508	20.695 126.227	1.00 33.68
MOTA	2232	OD1 ASN A 280	54.958	19.886 126.971	1.00 34.47 1.00 33.59
MOTA	2233	ND2 ASN A 280	56.809	20.660 125.973	
ATOM	2234	C ASN A 280	52.493	22.587 124.781	1.00 30.46 1.00 27.66
ATOM	2235	O ASN A 280	51.899	23.182 125.677	1.00 27.32
MOTA	2236	N ILE A 281	52.429	22.960 123.509	1.00 27.32
ATOM	2237	CA ILE A 281	51.620	24.107 123.128	1.00 35.08
ATOM	2238	CB ILE A 281	51.878	24.517 121.666	1.00 34.33
ATOM	2239	CG2 ILE A 381	50.776	25.445 121.174	1.00 34.53
ATOM	2240	CG1 ILE A 281	53.253	25.185 121.562	1.00 34.88
ATCM	2241	CD1 ILE A 281	53.590		1.00 34.00
ATOM	2242		50.141		1.00 30.15
ATOM	2243		49.391		1.00 30.91
MOTA	2244	N VAL A 282	49.723	22.000 122.323	1.00 30.0

			6				
		as 1137 3 303		48.332	22.214 1	23.081 1	00 30.76
MOTA	2245	CA VAL A 282		48.075	20.797 1		1.00 35.10
MOTA	2246	CB VAL A 282		46.641	20.358 1		1.00 28.72
MOTA	2247	CG1 VAL A 282			20.781		1.00 28.66
MOTA	2248	CG2 VAL A 282		48.313	22.236		1.00 31.39
ATCM	2249	C VAL A 282		47.952	22.236		1.00 32.70
MOTA	2250	O VAL A 282		46.884	22.715		1.00 32.70
	2251	N ARG A 283		48.837	21.720		
MOTA'		CA ARG A 283		48.587	21.675		1.00 34.82
MOTA	2252			49.629	20.785		1.00 31.44
MOTA	2253			49.551	19.334		1.00 29.49
MCTA	2254			50.729	18.539	127.554	1.00 30:67
ATOM	2255	CD ARG A 283		50.730	18.314	128.990	1.00 30.78
MOTA	2256	NE ARG A 283		51.826	18.351	129.742	1.00 35.27
MOTA	2257	CZ ARG A 283		53.012	18.611	129.198	1.00 36.46
MOTA	2258	NH1 ARG A 283		51.742		131.035	1.00 35.90
ATOM	2259	NH2 ARG A 283		48.561	23.065		1.00 36.06
ATOM	2260	C ARG A 283		47.830	23.302	128.439	1.00 35.04
MOTA	2261	O ARG A 283		49.350	23.985	126.928	1.00 35.70
ATOM	2262	N GLU A 284			25.303	127.448	1.00 40.93
ATOM	2263	CA GLU A 284		49.376	25.340	126.799	1.00 44.17
ATOM	2264	CB GLU A 284		50.499	26.100	127.141	1.00 56.39
ATOM	2265	CG GLU A 284		51.917	25.702	126 401	1.00 60.69
MOTA	2266	CD GLU A 284		52.989	26.495	126.401	1.00 63.13
ATOM	2267	OE1 GLU A 284		53.012	27.738	126.542	1.00 62.79
ATOM	2268	OE2 GLU A 284		53.810	25.880	125.680	1.00 39.24
ATOM	2269	C GLU A 284		48.039	26.014	127.148	1.00 39.24
ATOM	2270	O GLU A 284		47.525	26.783	127.954	1.00 38.32
	2271	N WAL A 285		47.472	25.704	125.986	1.00 33.75
MOTA	2272	CA VAL A 285		46.205	26.294	125.592	1.00 35.82
ATOM		CB VAL A 285		46.039	26.291	124.062	1.00 34.14
MOTA	2273	CG1 VAL A 285		44.654	26.811	123.693	1.00 36.43
ATOM	2274	CG2 VAL A 285		47.114	27.153	123.419	1.00 37.26
MOTA	2275			44.964	25.638	126.192	1.00 38.96
ATOM	2276			44.043	26.336	126.611	1.00 41.83
ATOM	2277			44.931	24.308	126.236	1.00 37.57
MOTA	2278			43.760	23.608	126.753	1.00 35.05
MOTA	2279	CA PHE A 286		43.159	22.723	125.657	1.00 32.53
MOTA	2280	CB PHE A 286		42.544	23.490	124.529	1.00 30.15
ATOM	2281	CG PHE À 286		43.104	23.459	123.256	1.00 33.96
MOTA	2282	CD1 PHE A 286		41.398	24 245	124.736	1.00 30.30
MOTA	2283	CD2 PHE A 286		42.527		122.202	1.00 32.96
MOTA	2284	CE1 PHE A 286		40.813	24 958	123.693	1.00 31.67
MOTA	2285	CE2 PHE A 286		41.381		122.419	1.00 31.66
MOTA	2286	CZ PHE A 286		43.922		128.015	1.00 35.18
ATOM	2287	C PHE A 286				128.409	1.00 36.97
MOTA	2288	O PHE A 286		42.984	22.000	128.656	1.00 30.87
ATOM	2289			45.086	22.090	129.862	1.00 30.06
ATCM	2290	CA GLY 2 287		45.297		129.527	1.00 34.44
ATOM	2291	C GLY 1. 287		45.525		128.403	1.00 32.54
MOTA	2292	O GLY 7. 287		45.914		130.500	1.00 28.42
MOTA	2293	N GLU A 288		45.288		130.300	1.00 32.23
MOTA	2294	CA GLU A 288		45.464		130.310	1.00 37.02
MOTA	2295		1	45.613		131.663	1.00 45.36
ATCM	2296		}	46.910		132.411	1.00 45.65
ATOM	2297			48.140		131.622	1.00 46.42
ATOM	2298	001	}	48.144	16.334	131.069	1.00 50.78
	2299		3	49.106		131.571	1.00 30.78
MOTA	2300		3	44.309	17.62	3 129.546	1.00 30.98
ATOM		00		43.144	17.95	7 129.762	1.00 28.67
ATOM	2301		•	44.643	16.69	4 128.657	1.00 29.66
MOTA	2303		•	43.629	15.99	9 127.886	1.00 28.08
MOTA	230		9	43.92	2 14.51	0 127.861	1.00 30.45
ATCM	2304		9	44.61	8 14.00	7 128.739	1.00 25.90
ATCM			n	43.38	4 13.80	7 126.868	1.00 26.21
ATOM			n	43.61	2 12.37	3 126.718	1.00 27.31
ATOM			n	42.28	8 11.62	6 126.412	1.00 26.33
ATOM	230		0	42.55	4 10.14	8 126.204	1.00 25.30
. ATCM			0	41.30	8 11.82	2 127.565	1.00 24.38
ATOM	231	O CG2 VAL A 29	•		==-		

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	2211	_	VAL A	290	44.580	12.248	125.550	1.00 24.52
ATOM	2311		VAL A		44.307	12.743	124.461	1.00 26.84
ATOM	2312		TYR A	201	45.716	11.597	125.775	1.00 23.56
ATOM	2313		TYR A		46.729	11.478	124.732	1.00 23.74
MOTA	2314				48.092	11.817	125.342	1.00 18.40
ATOM	2315		TYR A		48.040	13 113	126.118	1.00 21.60
ATOM	2316		TYR A			13 148	127.483	1.00 23.83
MOTA	2317		TYR A		48.326 48.200	14 331	128.214	1.00 24.57
ATOM	2318		TYR A			14.331	125.503	1.00 18.17
ATOM	2319		TYR A		47.634	15 476	126.220	1.00 26.36
MOTA	2320	CE2	TYR A		47.504	15.470	127.575	1.00 27.68
ATOM	2321	CZ	TYR A	291	47.786	15.403	128.283	1.00 28.92
MOTA	2322	OH	TYR A		47.631	10.037	124.044	1.00 23.03
ATOM	2323	С	TYR A		46.768	9.082	124.707	1.00 20.66
ATOM	2324	0	TYR A	291	46.837	10.142	122.711	1.00 23.96
ATOM	2325	N	LEU A		46.755	8.924	121.902	1.00 20.69
MOTA	2326	CA	LEU A		46.767	0.324	121.076	1.00 22.13
ATOM	2327	CB	LEU A	292	45.482	9.063	121.814	1.00 23.78
ATOM	2328	CG	LEU A	292	44.162			1.00 23.09
ATOM	2329	CD1	LEU A	292	43.001	8.959		1.00 16.01
ATOM	2330	CD2	LEU A	292	44.008	8.050		1.00 22.90
ATOM	2331	С	LEU A		47.953	8.885		1.00 22.31
MOTA	2332	0	LEU A	292	48.527	9.923		1.00 18.83
ATOM	2333	N	GLY A	293	48.301	7.684		1.00 24.35
ATOM	2334	CA	GLY A	293	49.401	7.529		1.00 24.22
ATOM	2335	С	GLY A	293	48.908	7.846	118.154	1.00 20.46
ATOM	2336	0	GLY A	293	48.025	8.684	117.991	1.00 24.63
ATOM	2337	N	GLY A	294	49.459	7.177	117.148	1.00 22.03
ATOM	2338	CA	GLY A	294	49.035	7.423	115.779	1.00 22.90
ATOM	2339	С	GLY A	294	50.024	6.869	114.769	1.00 24.10
ATOM	2340	0	GLY A	294	50.956	6.150	115.136	1.00 19.85
ATOM	2341	N	GLY A	295	49.825	7.203	112.458	1.00 23.33
ATOM	2342	CA	GLY A	. 295	50.721	0.724	112.740	1.00 19.01
ATOM	2343	С	GLY A	295	52.185	7.010	113.196	1.00 19.39
ATOM	2344	0	GLY A	295 .	52.541	8.094	5 112.472	1.00 25.85
ATOM	2345	N	GLY A	296	53.035	6.020	112.690	1.00 22.65
ATOM	2346	CA	GLY A	296	54.468	0.104	3 112.146	1.00 25.31
ATOM	2347	С	GLY A		55.098	2 70	B 112.609	1.00 25.86
ATOM	2348	0	GLY A	296	54.778		4 111.185	1.00 22.83
MOTA	2349	N	TYR A	297	56.005		2 110.577	
ATOM	2350	CA	TYR A	¥ 297	56.598		0 109.125	
ATOM	2351	CB	TYR A	A 297	56.137		4 109.035	
ATOM	2352	CG	TYR A		54.660 54.203		2 109.017	
ATOM	2353	CD:	L TYR A				5 109.089	
MOTA	2354	CE:		A 297	52.842		2 109.116	
ATOM	2355		2 TYR A	A 297	53.713		6 109.190	
ATOM	2356		2 TYR A	A 297	52.352		6 109.181	
ATOM	2357		TYR A	A 297	51.927 50.588		2 109.305	
ATOM	2358		TYR	A 297			4 110.674	
LTOM	2359	С	TYR	A 297	58.104 58.665		4 110.154	
A.TOM	2360	0	TYR .	A 297			1 111.326	
ATOM	2361	. 14	HIS.	A 298	58.765		4 111.517	
ATOM	2362	. CA	HIS .	A 298	60.204		2 111.216	
ATOM	2363			A 298	60.913		7 111.213	
MOTA	2364	CG	HIS	A 298	62.403 63.273			
ATOM	2365	CD	2 HIS	A 298				
ATOM	2366	ND	1 HIS	A 298	63.15		7 110.34	
ATOM	2367		1 HIS	A 298	64.41			
ATCM	2368		2 HIS	A 298	64.52			
-TOM	2369		HIS	A 298	60.37		20 113.86	
ATOM	2370		HIS	A 298	60.12		63 113.29	
ATOM	237	l N	PRO	A 299	60.82		32 112.35	
ATOM	237		PRO	A 299	61.28		91 114.66	
ATOM	237	3 CA	PRO	A 299	61.02		18 114.46	
ATOM	237	4 CE	PRO	A 299	61.67		06 113.13	
ATOM		5 CG	PRO	A 299	62.41		03 115.57	
ATOM			PRO	A 299	61.84	J.4	05 223.57	<u> </u>

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2377 2378 2379 2380 2381 2382 2388 2388 2388 2389 2399 2391 2392 2393 2394 2395 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408	O PRO A 299 N TYR A 300 CA TYR A 300 CB TYR A 300 CG TYR A 300 CD1 TYR A 300 CD1 TYR A 300 CD2 TYR A 300 CC2 TYR A 300 CC TYR A 300 CC TYR A 300 C TYR A 300 C TYR A 300 C TYR A 300 C TYR A 301 C TYR A 300 C TYR A 301 C ALA A 301 C ALA A 301 C LEU A 302 CC ALA A 303 C ALA A 303	61.480 62.959 63.803 65.163 65.912 65.517 66.214 67.027 67.730 67.320 68.011 63.113 63.108 62.530 61.839 61.266 60.715 60.556 59.940 58.818 58.036 55.983 57.394 58.648 60.289 60.765 61.854 61.279 60.944 62.092	3.932 115.058 4.801 115.878 5.058 115.207 3.821 114.738 2.539 115.120 1.411 114.682 3.941 113.908 2.829 113.466 1.568 113.854 0.471 113.404 6.134 116.137 6.631 117.264 6.711 115.092 7.993 115.216 8.416 113.864 7.878 116.237 8.728 117.117 6.808 116.110 6.566 116.996 5.354 116.483 4.798 117.291 3.938 116.394 4.001 118.465 6.373 118.451 6.946 119.358 5.580 118.672 5.320 120.024 4.269 119.990 6.849 121.875 7.354 120.003	1.00 32.45 1.00 27.41 1.00 27.34 1.00 26.84 1.00 29.09 1.00 30.93 1.00 30.68 1.00 29.72 1.00 30.76 1.00 33.89 1.00 23.44 1.00 23.87 1.00 23.87 1.00 24.16 1.00 27.86 1.00 27.86 1.00 27.86 1.00 26.50 1.00 26.50 1.00 27.86 1.00 27.85 1.00 27.49 1.00 27.49 1.00 27.49 1.00 27.49 1.00 29.73 1.00 27.49 1.00 27.49 1.00 29.73 1.00 27.49 1.00 27.48 1.00 27.48 1.00 23.18 1.00 27.48 1.00 27.48 1.00 27.48
MOTA	2409 2410	CA ARG A 304 CB ARG A 304	62.648 63.773	8.570 120.581 9.136 119.704	1.00 21.31
MOTA MOTA	2411	CG ARG A 304	65.005 66.153	8.231 119.562 9.042 118.951	1.00 25.98 1.00 27.87
MOTA	2412 2413	CD ARG A 304 NE ARG A 304	65.647	9.766 117.796	1.00 36.76 1.00 30.79
ATOM ATOM	2414	CZ ARG A 304	66.207 67.323	10.838 117.261 11.345 117.768	1.00 30.11
MOTA	2415 2416		65.623	11.419 116.225	1.00 36.07
MOTA MOTA	2417	C ARG A 304	61.585	9.634 120.803 10.237 121.876	1.00 25.46 1.00 24.23
MOTA	2418		61.519 60.741	9.854 119.802	1.00 22.22
ATOM ATOM	2419 2420		59.700	10.868 119.910	1.00 26.70 1.00 28.14
MOTA	2421	CB ALA A 305	58.914	10.960 118.607 10.626 121.072	1.00 25.54
ATOM	2422		58.749 58 513	11.520 121.883	1.00 24.17
MOTA MOTA	2423 2424	200	58 1.89	9.426 121.160	1.00 25.66 1.00 28.01
ATOM	3425	CA TRP A 306	57.270 56.454	9.157 122.253 7.873 122.012	1.00 18.66
MOTA	2426		55.382	8.052 120.973	1.00 21.80
MOTA MOTA	2427 2428		54.709	7.019 120.240	1.00 24.88 1.00 23.98
MOTA	2429	CE2 TRP A 306	53.725	7.646 119.442 5.623 120.181	
MOTA	2430		54.839 54.795	9,228 120.599	1.00 20.24
MOTA MOTA	2431 2432		53.799	8.995 119.681	1.00 24.18
MOTA	243	3 CZ2 TRP A 306	52.875	6.926 118.590 4.906 119.335	
MOTA	2434		53.993 53.024	5,562 118,550	1.00 24.12
MOTA	2435 2435		57.969	9.113 123.605	1.00 27.93 1.00 28.58
ATOM ATOM	243	7 O TRP A 306	57.330		1.00 26.76
ATOM	243		59.273 60.000	8.850 124.881	1.00 22.81
ATOM	243 244	O CB THR A 307	61.457	8.319 124.730	1.00 25.54
MOTA ATCM		1 OG1 THR A 307	61.435	6.902 124.504 8.599 125.988	1.00 22.73
ATOM		2 CG2 THR A 307	62.269	0.337 2221700	

		C THR A 307	60.027	10.288 125.396	1.00 26.54
MOTA	2443	* 205	59.925	10.526 126.604	1.00 25.34
MOTA	2444		60.152	11.247 124.478	1.00 21.65
ATOM	2445		60.172	12.657 124.862	1.00 21.41
MOTA	2446	0.00	60.442	13.558 123.642	1.00 19.20
ATOM	2447		61.797	13.386 122.938	1.00 21.31
MOTA	2448	CD1_LEU A 308	61.900	14.362 121.774	1.00 21.75
ATOM	2449	CD2 LEU A 308	62.937	13.622 123.915	1.00 19.26
ATOM	2450		58.811	12.981 125.479	1.00 25.18
MOTA	2451		58.731	13.565 126.561	1.00 21.35
ATOM	2452		- 57.743	12.567 124.806	1.00 21.74
MOTA	2453		56.394	12.799 125.298	1.00 19.23
MOTA	2454 2455	CB ILE A 309	55.337	12.149 124.366	1.00 19.63
MOTA	2455	CG2 ILE A 309	53.945	12.321 124.948	1.00 19.54
MOTA	2457	CG1 ILE A 309	55.403	12.788 122.979	1.00 20.80
MOTA	2457	CD1 ILE A 309	55.118	14.274 122.988	1.00 20.08
MOTA	2459	C ILE A 309	56.228	12.222 126.701	1.00 23.97
MOTA	2460	O ILE A 309	55.731	12.894 127.602	1.00 21.38
ATOM	2461	N TRP A 310	56.652	10.977 126.888	1.00 26.45
MOTA	2462	CA TRP A 310	56.525	10.342 128.192	1.00 28.35
MOTA	2463	CB TRP A 310	56.940	8.872 128.132	1.00 23.95
MOTA	2464	CG TRP A 310	56.874	8.203 129.479	1.00 29.60
MOTA MOTA	2465	CD2 TRP A 310	55.697	7.967 130.263	1.00 31.40
ATOM	2466	CE2 TRP A 310	56.115	7.390 131.480	1.00 32.47
ATOM	2467	CE3 TRP A 310	54.329	8.189 130.055	1.00 32.30 1.00 33.42
ATOM	2468	CD1 TRP A 310	57.926	7.770 130.232	
ATOM	2469	NE1 TRP A 310	57.480	7.282 131.436	1.00 30.09 1.00 29.93
MOTA	2470	CZ2 TRP A 310	55.213	7.030 132.492	1.00 29.72
MOTA	2471	CZ3 TRP A 310	53.432	7.831 131.062	1.00 24.53
MOTA	2472	CH2 TRP A 310	53.881	7.259 132.265	1.00 24.33
ATOM	2473	C TRP A 310	57.308	11.048 129.293 11.137 130.426	1.00 33.45
ATOM	2474	O TRP A 310	56.820	11.137 130.426 11.535 128.984	1.00 29.34
MOTA	2475	N CYS A 311	58.512	12.247 129.994	1.00 30.06
MOTA	2476	CA CYS A 311	59.305	12.538 129.479	1.00 30.08
ATOM	2477	CB CYS A 311	60.722	11.084 129.327	1.00 33.17
MOTA	2478	SG CYS A 311	61.804	13.560 130.397	1.00 29.25
MOTA	2479	C CYS A 311	58.612 58.612	13.940 131.570	1.00 28.80
ATOM	2480	O CYS A 311	58.021	14.247 129.425	1.00 23.13
MOTA	2481	N GLU A 312	57.308	15.496 129.696	1.00 30.31
MOTA	2482	CA GLU A 312 CB GLU A 312	56.648	16.032 128.427	1.00 28.97
MOTA	2483		57.080	17.418 127.988	1.00 41.67
ATOM	2484		56.905	18.465 129.059	1.00 44.21
MOTA	2485	OE1 GLU A 312	. 55.813	18.534 129.658	1.00 54.15
ATOM	2486	OE2 GLU A 312	57.860	19.233 129.290	1.00 43.90
ATOM	2487	C GLU A 312	56.204	15.225 130.712	1.00 28.03
MOTA	2489	O GLU A 312	56.120	15.869 131.751	1.00 30.64
ATOM	2499	N LEU A 313	55.343	14.270 130.388	1.00 31.06
MOTA	2491	CA LEU A 313	54.231	13.918 131.266	1.00 36.21
MOTA	2492	CB LEU A 313	53.337	12.873 130.604	
MOTA MOTA	2493	CG LEU A 313	52.493	13.342 129.429	1.00 34.62
ATOM	2494	CD1 LEU A 313	51.818	12.146 128.788	1.00 33.05
ATOM	2495	CD2 LEU A 313	51.471		1.00 27.27 1.00 33.97
MOTA	2496	C LEU A 313	54.685		
MOTA	2497	O LEU A 313	54.131		
ATOM	2498		55.688	12.508 132.577	
MOTA	2499	CA SER A 314	56.233		
ATOM	2500	CB SER A 314	57.183	10.743 133.388	
ATOM	2501	OG SER A 314	56.517		
ATOM	2502	C SER A 314	57.002	12.846 134.659	
ATOM	2503	o SER A 314	57.339	12.513 135.788 14.021 134.130	
ATOM	2504	N GLY A 315	57.312		
ATOM	2505	CA GLY A 315	58.057		
ATOM	2506	C GLY A 315	59.518		
ATOM	2507	0 GLY A 315	60.138		
ATOM	2508		60.089	7 15.804 134.10.	

			. '		
	2509	CA ARG A 316		61.490	13.501 134.332 1.00 39.06
MOTA	2510	CB ARG A 316		61.641	11.982 134.413 1.00 39.16
ATOM ATOM	2511	CG ARG A 316		61.233	11.226 133.184 1.00 39.11
MOTA	2512	CD ARG A 316		61.426	9.744 133.429 1.00 41.21
ATOM	2513	NE ARG A 316		60.461	9.229 134.389 1.00 40.97 8 021 134.926 1.00 36.40
ATOM	2514	CZ ARG A 316		60.524	0.022 ======
ATOM	2515	NH1 ARG A 316		61.511	
ATOM	2516	NH2 ARG A 316		59.583	7.621 135.768 1.00 30.53 14.083 133.230 1.00 40.17
ATOM	2517	C ARG A 316		62.369	14.325 132.111 1.00 34.27
ATOM	2518	O -ARG A 316		61.910	14.325 133.564 1.00 41.26
MOTA	2519	N GLU A 317		63.633 64.580	14.905 132.619 1.00 44.42
MOTA	2520	CA GLU A 317	-	65.901	15.249 133.317 1.00 46.84
MOTA	2521	CB GLU A 317 CG GLU A 317		65.756	15 996 134.629 1.00 57.66
ATOM	2522	CG GLU A 317 CD GLU A 317		65.212	15.113 135.743 1.00 65.46
ATOM	2523 2524	OE1 GLU A 317		65.871	14.101 136.073 1.00 68.38
ATOM ATOM	2525	OE2 GLU A 317		64.129	15.425 136.287 1.00 67.24 13 962 131.462 1.00 38.45
MOTA	2526	C GLU A 317		64.873	
ATOM	2527	O GLU A 317		64.977	
ATOM	2528	N VAL A 318		65.010	14.525 130.275 1.00 37.64 13.720 129.108 1.00 39.13
ATOM	2529	CA VAL A 318		65.315 64.858	14.417 127.810 1.00 42.75
MOTA	2530	CB VAL A 318		65.192	13 544 126.610 1.00 41.84
MOTA	2531	CG1 VAL A 318		63.364	14 701 127.867 1.00 42.38
MOTA	2532	CG2 VAL A 318 C VAL A 318		66.822	13 495 129 037 1.00 38.45
MOTA	2533	C VAL A 318		67.598	14.442 128.910 1.00 36.04
MOTA	2534 2535	N PRO A 319		67.261	12.236 129.156 1.00 39.54
MOTA MOTA	2536	CD PRO A 319		66.512	10.994 129.397 1.00 40.47 11 949 129.088 1.00 43.85
ATOM	2537	CA PRO A 319		68.695	
ATOM	2538	CB PRO A 319		68.745	10.439 129.319 1.00 44.12 9.986 128.745 1.00 46.48
ATOM	2539	CG PRO A 319		67.419	12.353 127.718 1.00 43.55
MOTA	2540	C PRO A 319		69.228 68.563	12.141 126.708 1.00 43.45
MOTA	2541	O PRO A 319		70.420	12 936 127 689 1.00 42.52
MOTA	2542	N GLU A 320 CA GLU A 320		71.026	13.380 126.440 1.00 45.19
MOTA	2543	CA GLU A 320 CB GLU A 320		72.384	14.032 126.706 1.00 43.86
ATOM	2544 2545	CG GLU A 320		73.121	14.412 125.434 1.00 52.62
ATOM ATOM	2546	CD GLU A 320		74.507	14.967 125.697 1.00 52.36 15.271 124.720 1.00 56.25
ATOM	2547	OE1 GLU A 320		75.219	
ATCM	. 2548	OE2 GLU A 320		74.883	15.101 126.875 1.00 52.25 12.266 125.421 1.00 43.52
ATOM	2549	C GLU A 320		71.223	12.412 124.253 1.00 41.89
ATOM	2550	O GLU A 320		70.876 71.781	11 150 125.867 1.00 43.35
ATOM	2551	N LYS A 321		72.059	10 041 124.969 1.00 43.53
ATOM	2552	CA LYS A 321 CB LYS A 321		73.561	9.808 124.879 1.00 42.78
ATOM	2553 2554			74.238	9.34C 126.180 1.00 49.38
ATOM	2555			74.272	10.396 127.307 1.00 57.82
MOTA MOTA	2556			72.978	10.497 128.129 1.00 53.81 9.245 128.883 1.00 54.17
ATOM	2557	NZ LYS A 321		72.660	9.245 128.883 1.00 54.17 8.731 125.345 1.00 41.52
ATOM	2558	C LYS A 321		71.407	8.540 126.469 1.00 41.98
ATOM	2559	O LYS A 321		70.954	7.820 124.382 1.00 38.64
ATOM	2560			71.378 70.815	6.508 124.613 1.00 40.46
MOTA	2561			70.813	5.845 123.289 1.00 42.22
MOTA	2562			69.595	6.632 122.287 1.00 42.92
MOTA	2563			69.204	5.737 121.125 1.00 41.13
MOTA	2564			68.361	7.148 122.967 1.00 44.41
MOTA	2565 2566	222		71.918	5.702 125.268 1.00 41.36
MOTA MOTA	2567			73.079	
ATOM	2568	N ASN A 323		71.579	
MOTA	2569	CA ASN A 323		72.594	100 250 1 00 43 00
MOTA	2570	CB ASN A 323		72.136	
ATOM	257	1 CG ASN A 323		70.787 70.482	2 151 127.264 1.00 45.71
ATOM	2573	2 OD1 ASN A 323		69.975	3 114 129.224 1.00 48.08
ATOM				72.828	
MOTA	257	4 C ASN A 323		,	

						72.124	2 739	124.955	1.00 46.41
atom	2575		SN A				2.052	126.268	1.00 45.98
MOTA	2576		SN A			73.809			1.00 49.82
MOTA	2577	CA AS	SN A	324		74.122	0.938	125.404	
MOTA	2578		SN A			75.386	0.244	125.904	1.00 53.88
	2579		SN A			75.960	-0.711	124.888	1.00 60.09
ATCM			SN A			75.344	-1.723	124.550	1.00 66.99
MOTA	2580					77.143	-0 386	124.378	1.00 58.06
MOTA	2581		SN A				-0.380	125.267	1.00 47.12
MOTA	2582		SN A						1.00 43.63
ATOM	2583	0 A	SN A	324	٠	72.784	-0.644	124.197	
	2584		YS A			72.220	-0.276	126.339	1.00 46.39
MOTA	2585		YS A			71.106	-1.221	126.318	1.00 46.76
MOTA			YS A			70.428	-1.328	127.695	1.00 47.65
MOTA	2586						-1 837	128.858	1.00 54.21
MOTA	2587	CG L	YS A	325		71.292	0.750	129.526	1.00 56.87
MOTA	2588		YS A			72.160	-0.750	129.520	1.00 57.45
MOTA	2589	CE L	YS A	325.		73.329	-0.289		
ATOM	2590	NZ L	YS A	325		74.091	0.816		1.00 58.32
	2591		YS A			70.062	-0.791	125.296	1.00 45.17
MOTA		0 1	YS A	325		69.474	-1.625	124.601	1.00 42.73
MOTA	2592	O L	13 A	322		69.832	0 514	125.213	1.00 41.43
MOTA	2593	N A	LA A	320			1 054	124.276	1.00 41.61
MOTA	2594	CA A	LA A	326		68.861	1.034	124.276	1.00 42.80
ATOM	2595	CB A	LA A	326		68.562	2.508	124.616	
MOTA	2596	C A	LA A	326		69.365	0.940	122.838	1.00 43.80
MOTA	2597		LA A			68.595	0.625	121.926	1.00 45.17
		N L	YS A	327		70.658	1.191	122.637	1.00 43.46
ATOM	2598		YS A			71.235		121.296	1.00 43.26
MOTA	2599					72.723	1 484	121.311	1.00 44.77
MOTA	2600		YS A				2.892	121.800	1.00 50.87
ATOM	2601		YS A			73.037	2.092	121.000	1.00 52.74
ATOM	2602	CD L	YS A	327		74.544	3.168	121.747	
ATOM	2603	CE L	YS A	327		74.916	4.508	122.377	1.00 51.30
	2604	NZ L	YS A	327		74.256	5.670	121.715	1.00 52.72
ATOM	2605		YS A			71.063	-0.274	120.728	1.00 41.29
MOTA		0 1	YS A	327		70.625	-0.437	119.592	1.00 38.83
MOTA	2606	0 I	A CIL	227		71.403	_1 278	121.526	1.00 39.95
MOTA	2607		LU A				-1.270	121.090	1.00 42.40
MOTA	2608		LU A			71.276	-2.000	121.090	1.00 43.05
MOTA	2609	CB C	LU A	328		71.875	-3.605	122.135	
ATOM	2610	CG C	LU A	328		73.369	-3.432	122.295	1.00 48.81
	2611		GLU A			74.096	-3.529	120.963	1.00 52.11
MOTA			SLU A			73.972	-4.574	120.291	1.00 55.44
MOTA	2612					74.785	-2 558	120.584	1.00 51.64
ATOM	2613			328		69.825	-3 030	120.818	1.00 39.51
ATOM	2614		SLU A				3 042	119.939	1.00 37.35
MOTA	2615		GLU A			69.536	-3.842	121 502	1.00 36.37
ATOM	2616	N I	LEU A	329		68.911	-2.444	121.582	1.00 36.03
ATOM	2617	CA I	LEU A	329		67.496	-2.717	121.380	
	2618	CB I	LEU A	329		66.646	-1.958	122.400	1.00 34.66
ATOM			LEU A			65.133	-2.110	122.213	1.00 33.88
ATOM	2619		LEU A			64.755	-3.572	122.351	1.00 36.21
ATOM	2620					64.391		123.240	1.00 34.00
ATOM	2621	CD2	LEU A	329			2 268	119.971	1.00 33.64
ATOM	2622	C	LEU A	329		67.120	-2.200	110 162	1.00 31.29
ATOM	2623	0 1	LEU A	329	•	66.655	-3.061	119.162	1.00 33.78
ATOM	2624	N :	LEU A	330		67.333	-0.990	119.681	
	2625		LEU A			67.004	-0.461	118.366	1.00 36.38
ATOM			LEU A			67.326	1.033	118.294	1.00 30.74
ATOM	2626					66.514	1.958	119.205	1.00 31.51
ATOM	2627		LEU A				3 404	118.894	1.00 22.11
ATOM	2628	CD1	LEU A	330		66.857	3.404	110.07	1.00 29.69
ATOM	2629	CD2	LEU A	330		65.028	1./28	118.978	1.00 36.49
ATOM	2630	C .	LEU A	330		67.729	-1.201	117.246	1.00 30.49
	2631		LEU A			67.142	-1.493	116.210	1.00 35.61
ATOM	_		LYS A			69.005	-1.503	117.455	1.00 37.63
ATOM	2632		LYS Y			69.786	-2.205	116.446	1.00 41.32
ATCM	2633					71.256	_2 273	116.874	1.00 44.74
ATOM	2634		LYS A				0.016	116.869	1.00 44.68
ATOM	2635		LYS A			71.954	-0.913	, 117 400	1.00 51.42
ATOM	2636	CD	LYS A	331		73.350	-0.964	117.498	1.00 31.42
ATOM	2637	CE	LYS A	331		74.315	-1.889	116.765	1.00 53.71
	2638	NZ	LYS ?	331		73.928	-3.32	7 116.855	1.00 56.15
ATOM			LYS A	331		69.258	-3.612	2 116.173	1.00 42.35
atom	2639		LYS ?	. 321		69.310	-4 OR	6 115.042	1.00 42.68
ATOM	2640	0	רגס ל	TCC		07.510	4.00		

						17 200	1.00 41.5	6
ATOM	2641	N SER A	332		-4.270		1.00 46.8	0
	2642	CA SER A	332	68.226	-5.629			
MOTA				68.045	-6.298	118.400	1.00 42.1	.9
ATOM	2643	CB SER A	332			119.096	1.00 39.5	55
MOTA	2644	OG SER A		• • • •		116.297	1.00 48.5	8
ATOM	2645	C SER A	332	66.896	-5.00/		1.00 45.7	18
	2646	O SER A	332	66.393	-6.774			
MOTA	_		333	66.325	-4.531	115.979	1.00 48.2	
MOTA	2647			65.041		115.292	1.00 51.8	32
MOTA	2648	CA ILE A			-3.119		1.00 52.3	16
MOTA	2649	CB ILE A	333	64.378	-3.113	114.683	1.00 52.6	54
MOTA	2650	CG2 ILE A	333	63.038		114.003	1.00 52.	70
		CG1 ILE A	333	64.163		116.871	1.00 52.	70
MOTA	2651		222	63.550	-1.402	117.077	1.00 56.	
MOTA	2652	CD1 ILE A	. 333	65.112	-4.887	113.820	1.00 53.4	43
MOTA	2653	C ILE A	. 333			113.145	1.00 56.4	45
MOTA	2654	O ILE A	. 333	66.118			1.00 55.	
	2655	N ASP A	. 334	64.016		113.344		
MOTA	2656	CA ASP A	334	63.865		111.962		
MOTA			334	62.845	-7.040	111.918	1.00 62.	69
MOTA	2657	CB ASP A	224	61.546		112.664	1.00 66.	23
MOTA	2558	CG ASP A	334	60.795		112.227	1.00 63.	25
MOTA	2659	OD1 ASP A	334			113.704	1.00 63.	45
ATOM	2660	OD2 ASP A	334	61.277			1.00 60.	21
	2661	C ASP A		63.385		111.125		
MOTA				62.239	-4.673	110.681	1.00 59.	
MOTA	2662			64.266	-3.736	110.889	1.00 60.	00
ATOM	2663	N PHE A		63.864	-2.545	110.147	1.00 59.	37
ATOM	2664	CA PHE A	335			110.952	1.00 53.	
ATOM	2665	CB PHE A	335	64.247	-1.298		1.00 49.	
	2666	CG PHE	A 335	63.895	-0.013	110.275	1.00 49.	27
MOTA			335	62.618	0.189	109.770	1.00 44.	
MOTA	2667	CD1 PHE	. 335	64.845	0.993	110.127	1.00 49.	
MOTA	2668		A 335	62.288	1.373		1.00 42.	.74
MOTA	2669		A 335		2.180	109.483	1.00 46.	.40
ATOM	2670	CE2 PHE		64.526			1.00 42	
	2671	CZ PHE	A 335	63.244	2.370			
ATOM	_	C PHE	A 335	64.334	-2.399	108.696	1.00 60	. 65
ATOM	2672	C FILE	A 335	63.689	-2.914	107.785	1.00 66	. 28
MOTA	2673			65.430	-1:671		1.00 57	.40
ATOM	2674	N GLU	A 336		-1.411		1.00 58	.96
MOTA	2675	CA GLU	A 336	66.015			1.00 62	66
ATOM	2676	CB GLU	A 336	65.782	-2.579		1.00 68	51
	2677	CG GLU	A 336	66.417	-2.377	104.846		
MOTA			A 336	66.277	-3.590	103.943		.21
MOTA	2678			66.753	-4.678	104.333		.30
MOTA	2679		A 336	65.697	-3 457	102.843		.74
MOTA	2680	OE2 GLU	A 336	65.057	-0.124		1.00 55	.70
ATOM	2681	C GLU	A 336	65.460			1.00 55	28
ATOM	2682	O GLU	A 336	64.281	-0.023		1.00 54	75
	2683	N GLU	A 337	66.338	0.857		1.00 54	. , ,
MOTA		(2) CIU	A 337	65.986	2.167	7 105.905	1.00 55	.99
MOTA	2684	CA GLU	A 337	67.221	3.065		1.00 51	75
MOTA	2685		A 337	66.926	4 53/	106.092	1 00 52	.28
ATOM	2686	CG GLU	A 337		4.00	107.366	:.00 43	
ATOM	2687	CD GLU	A 337	66.184		107.500	: 00 42	21
	2688		A 337	66.705		108.474	1.00 47	21
ATOM			A 337	65.072	5.42	5 107.256		
ATOM	2589		3 227	65.485	2.06	4 104.460	1.00 57	1.56
MOTA.	2690		A 337	66.087		7 103.639	1.00 58	3.29
ATOM	2691	O GLU	A 337			5 104.151		0.26
ATOM	2692		A 338	64.385		2 103.424		69
	2693		A 338	63.814	2./1	0 102.805		. 05
MOTA			A 338	62.561		2 102.723		. 60
ATOM	2694		A 338	61.845		3 101.401		1.92
MOTA	2695		A 330	61.054			1.00 63	2.99
MOTA	2696	CD1 PHE	A 338	61.039		8 100.458	1.00 6	2.74
MOTA	2697	CD2 PHE	A.338	61.970				5 11
	2698	_	A 338	60.392	2.30			4 62
MOTA			A 338	61.315	4.42			02
MOTA	2699		A 338	60.523	3.32	2 98.934		J.8/
ATOM	2700		7 770	64.818		8 101.773	1.00 6	4.33
ATOM	2701	C PHE	A 338			1 100.61		2.45
ATOM	2702	O PHE	A 338	64.80		0 102.194		4.11
		N ASP	A 339	65.67		NA 101 21		7.42
MOTA			A 339	66.689		4 101.31		7 7
ATOM		<u>-</u>	A 339	66.56	5 6.20	6 101.24	1.00 6	
atcm			A 339	67.64		8 100.40	2 1.00 6	8.03
ATOM	270	6 CG ASP	W 773	• • • • •				

			_				
MOTA	2707	OD1 ASP A 33	9 6	7.796	6.432		1.00 72.20
MOTA	2708	OD2 ASP A 33	19 6	0.5.			1.00 64.15
MOTA	2709	C ASP A 33	19 6	•		101.763	1.00 68.73 1.00 68.17
ATOM	2710	O ASP A 33	. •	8.511			1.00 08.17
MOTA	2711	N ASP A 34		8.796		100.888 101.149	1.00 71.50
ATOM	2712	CA ASP A 34	. •	0.151	3.111 1 2.601	99.848	1.00 75.47
MOTA	2713	CB ASP A 34		0.778	1.511	99.195	1.00 76.03
MOTA	2714	CG ASP A 34		9.953 9.761	0.449	99.823	1.00 76.90
MOTA	2715	OD1 ASP A 34	• •	9.492	1.718	98.054	1.00 80.23
MOTA	2716	OD2 ASP A 34		1.069		101.766	1.00 72.77
MOTA	2717	C ASP A 34		1.618		102.845	1.00 73.08
ATOM	2718 2719	N GLU A 34		1.242	5.275	101.074	1.00 73.15
ATOM	2720	CA GLU A 34	_	2.112		101.557	1.00 74.56
MOTA MOTA	2721	CB GLU A 34		2.917	• • • -	100.390	1.00 77.06
ATOM	2722	CG GLU A 3	41 7	3.878		100.792	1.00 82.57
ATOM	2723	CD GLU A 3	-	4.924		101.794 101.450	1.00 85.34 1.00 86.64
ATOM	2724	OE1 GLU A 3		5.718		101.430	1.00 85.37
MOTA	2725	OE2 GLU A 3		4.951		102.245	1.00 72.47
MOTA	2726	C GLU A 3		71.327 70.822	8.364	101.589	1.00 76.75
MOTA	2727	O GLU A 3 N VAL A 3		71.228		103.566	1.00 67.86
MOTA	2728			70.503	8.393	104.323	1.00 64.84
MOTA	2729 2730	CA VAL A 3 CB VAL A 3		59.160	7.853	104.850	1.00 66.27
ATOM ATOM	2731	CG1 VAL A 3		8.256		103.701	1.00 67.95
MOTA	2732	CG2 VAL A 3		59.400	6.637	105.722	1.00 65.37
ATOM	2733	C VAL A 3	42	71.305	8.871	105.520	1.00 61.75 1.00 64.14
ATOM	2734	O VAL A 3				105.795 106.225	1.00 54.14
ATOM	2735	N ASP A 3		71.912		106.223	1.00 54.53
ATOM-	2736	CA ASP A 3		72.692		107.158	1.00 56.31
MOTA	2737	CB ASP A 3		73.707 74.531		108.388	1.00 58.81
MOTA	2738	CG ASP A 3 OD1 ASP A 3	• •	75.298	10.644	108.357	1.00 65.36
MOTA	2739 2740	OD1 ASP A 3		74.420	8.918	109.387	1.00 54.29
MOTA	2741	C ASP A 3		71.765	8.675		1.00 50.70
ATOM ATOM	2742	O ASP A 3	43	71.442	9.859		1.00 46.00
ATOM	2743	N ARG A 3	44	71.328	7.717		1.00 46.20 1.00 41.18
ATOM	2744	CA ARG A 3		70.452	8.004		1.00 39.81
MOTA	2745	CB ARG A 3		69.121	7.268	110.299 109.098	1.00 35.08
ATOM	2746	CG ARG A		68.289 68.036	9.211	109.121	1.00 28.37
ATOM	2747	CD ARG A		67.157		108.036	1.00 30.90
MOTA	2748	NE ARGA 3	344	67.013	10.909	107.649	1.00 31.05
MOTA	2749 2750	NH1 ARG A		67.693	11.874	108.258	1.00 30.49
MOTA MOTA	2751	NH2 ARG A		66.201	11.212	106.646	1.00 31.76
MOTA	2752	C ARG A		71.147	7.561	111.742	1.00 38.46 1.00 34.99
ATOM	2753	O ARG A	344	70.516	7.370	112.773	1.00 33.97
ATOM	2754	N SER A	345	72.464	7.418	111.662 112.795	1.00 33.68
ATOM	2755	CA SER A		73.261	6.901	112.404	1.00 39.11
MOTA	2756	CB SER A	345	74.742 75.163	8 260	111.990	1.00 42.80
MOTA	2757	OG SER A	345 245	73.103	7.826	114.053	1.00 31.83
ATOM	2758			73.100	7.314	115.167	1.00 24.35
ATOM	2759 2760	O SERA	346	72.819	9.119	113.877	1.00 33.10
ATOM	2761	CA TYR A		72.614	10.003	115.015	1.00 34.50
MOTA MOTA	2762	CB TYR A	346	72.397		114.522	1.00 35.16
MOTA	2763	CG TYR A		71.168	11.615	113.659	
MOTA	2764	CD1 TYR A	346	69.909	11.814	114.227	
ATOM	2765	CE1 TYR A	346	68.767	11.940	113.424 112.270	
ATOM	2766			71.260	11.544 11.667		
ATOM	2767		346	70.131	11.864		
ATOM	2768		346	68.890 67.776	11 987	111.234	1.00 32.48
atom	2769		346	71.432	9.560	115.874	1.00 37.72
ATOM	2770		346	71.396	9.829	9 117.074	1.00 35.48
ATCM	2771 2772		347	70.472	8.869	115.265	1.00 35.36
ATCM	_1/2						

			2.8		
ATOM	2773	CA MET A 347	69.295		00 36.97
ATOM	2774	CB MET A 347	68.226		00 33.45 00 28.09
ATOM	2775	CG MET A 347	67.853		1.00 28.03
ATOM	2776	SD MET A 347	66.471	8.194 112.943 1 6.647 112.457	1.00 39.25
ATOM	2777	CE MET A 347	67.058		1.00 34.67
ATOM-	2778	C MET A 347	69.632	7.187 118.016	1.00 33.46
MOTA	2779	O MET A 347	68.890 70.747	6.663 116.880	1.00 36.42
MOTA	2780	N LEU A 348	71.137		1.00 34.57
MOTA	2781	CA LEU A 348	71.841	4 476 117.152	1.00 34.16
MOTA	2782	CB -LEU A 348 CG LEU A 348	71.066	3 655 116.121	1.00 35.61
MOTA	2783	CG LEU A 348 CD1 LEU A 348	72.010	2.660 115.469	1.00 36.58
MOTA	2784 2785	CD2 LEU A 348	69.906		1.00 42.34
MOTA	2786	C LEU A 348	72.075		1.00 37.10
ATOM ATOM	2787	O LEU A 348	72.583		1.00 37.75 1.00 38.31
ATOM	2788	N GLU A 349	72.295		1.00 42.86
MOTA	2789	CA GLU A 349	73.192		1.00 47.04
ATOM	2790	CB GLU A 349	74.150 74.942	8.426 117.867	1.00 53.27
ATOM	2791	CG GLU A 349	75.828	7.325 118.410	1.00 58.36
MOTA	2792	CD GLU A 349	76.681	7.619 119.279	1.00 59.59
ATOM	2793	OE1 GLU A 349 OE2 GLU A 349	75.669	6.166 117.963	1.00 59.17
MOTA	2794	C GLU A 349	72.458	9.080 120.752	1.00 41.72
ATOM	2795 2796	O GLU A 349	72.564	8.852 121.959	1.00 42.27
ATOM ATOM	2797	N THR A 350	71.716	10.067 120.261	1.00 37.05
MOTA	2798	CA THR A 350	70.992	10.976 121.135	1.00 40.78 1.00 41.69
ATOM	2799	CB THR A 350	71.468	12.418 120.900 12.733 119.508	1.00 41.09
ATOM	2800	OG1 THR A 350	71.359	12.733 119.508 12.575 121.325	1.00 44.11
ATOM	2801	CG2 THR A 350	72.918 69.474	10.911 120.968	1.00 41.47
ATOM	2802	C THR A 350	68.968	10.608 119.884	1.00 39.72
MOTA	2803	O THR A 350 N LEU A 351	68.760	11.199 122.054	1.00 38.68
ATOM	2804		67.299	11.185 122.056	1.00 35.91
MOTA	2805 2806	CA LEU A 351 CB LEU A 351	66.763	11.210 123.487	1.00 35.94
MOTA MOTA	2807	CG LEU A 351	66.752	9.890 124.251	1.00 37.67
ATOM	2808	CD1 LEU A 351	66.290	10.118 125.677	1.00 40.11 1.00 39.29
MOTA	2809	CD2 LEU A 351	65.813	8.920 123.544 12.342 121.294	1.00 37.76
ATOM	2810	C LEU A 351	66.679	12.342 121.294	1.00 34.86
ATOM	2811	O LEU A 351	65.747 67.192	13.544 121.525	1.00 34.79
MOTA	2812	N LYS A 352	66.651	14.724 120.870	1.00 38.73
MOTA	2813	CA LYS A 352 CB LYS A 352	66.676	15.911 121.835	1.00 36.48
ATOM	2814 2815	CB LYS A 352 CG LYS A 352	66.062	15.580 123.179	1.00 42.08
MOTA	2816	CD LYS A 352	66.202	16.701 124.196	1.00 43.22
MOTA MOTA	2817		65.349	17.901 123.845	1.00 49.81 1.00 52.70
MOTA	2818	NZ LYS A 352	65.342	18.880 124.972	1.00 32.70
MOTA	2819	C LYS A 352	67.425	15.063 119.610 15.098 119.601	1.00 36.21
MOTA	2820	O LYS A 352	68.654	15.293 118.530	1.00 37.69
MOTA	2821	N ASP A 353	66.697 67.337	15.647 117.286	1.00 39.89
ATOM	2822		66.532	15.075 116.110	1.00 43.53
ATOM	2823		65.058	15.368 116.211	1.00 47.99
ATOM	2824		64.253	14.623 115.593	1.00 38.06
ATOM	2825 2826		64.706	16.352 116.898	1.00 52.94
ATOM	2827		67.457	17.165 117.247	1.00 39.20
MOTA MOTA	2828		66.890	17.861 118.092	1.00 35.66 1.00 40.75
ATOM	2829	N PRO A 354	68.244	17.696 116.302	1.00 40.75
ATOM	2830	CD PRO A 354	69.047	17.005 115.279 19.145 116.179	1.00 38.41
MOTA	2831	CA PRO A 354	68.426	19.145 116.179	1.00 36.24
MOTA	2832		69.534 69.190		1.00 39.41
ATOM	2833			19,780 115.689	1.00 37.28
MOTA	2834			19,106 115.094	1.00 31.87
MOTA	2835	255		21.074 115.934	1.00 37.87
MOTA	2836 2837	155	65.804	21.757 115.472	1.00 40.04
MOTE					1.00 42.85
MOTA	2030	<u></u> - 			

								1.00 53.01
MOTA	2839	CG :	TRP A 3	55	64.333	23.471	116.569	
	2840		TRP A 3		63.439	24.463	116.047	1.00 54.23
MOTA					62.234	24 368	116.783	1.00 52.59
ATCM	2841		TRP A 3					1.00 52.82
MOTA	2842	CE3 '	TRP A 3	5 5	63.538	25.422	115.028	
MOTA	2843	CD1 '	TRP A 3	55	63.655	22.836	117.575	1.00 51.80
			TRP A 3		62.393	23.368	117.708	1.00 51.38
MOTA	2844					25.197	116.532	1.00 51.28
ATOM	2845		TRP A 3		61.134			1.00 53.22
MOTA	2846	CZ3	TRP A 3	55	62.444	26.245	114.779	
ATOM	2847	CH2	TRP A 3	55	61.257	26.126	115.531	1.00 50.50
			TRP A 3		65.935	21.836	113.954	1.00 37.34
MOTA	2848					21.929	113.422	1.00 39.01
MOTA	2849		TRP A 3		67.041			1.00 36.31
MOTA	2850	N	ARG A 3	56	64.809		113.259	
	2851		ARG A 3		64.797	21.820	111.802	1.00 35.22
MOTA			ARG A 3		64.317	20.469	111.252	1.00 33.36
MOTA	2852					19.340	111.564	1.00 34.50
MOTA	2853	CG	ARG A 3	56	65.310			1.00 28.06
MOTA	2854	CD	ARG A 3	56	64.729		111.468	
	2855	NE	ARG A 3	56	65.745	16.956	111.870	1.00 24.79
MOTA			ARG A 3		65.499	15.703	112.236	1.00 27.56
MOTA	2856					15.237	112.259	1.00 19.09
ATOM	2857	NHI	ARG A 3	56	64.253			1.00 21.34
ATOM	2858		ARG A 3		66.502	14.918		
ATOM	2859		ARG A 3		63.874	22.955	111.390	1.00 33.74
	2860	ŏ	ARG A 3	156	62.746	22.732	110.950	1.00 34.68
ATOM					64.361	24 181	111.550	1.00 35.60
MOTA	2861		GLY A 3		C3 FFC		111.220	1.00 35.43
ATOM	2862	CA	GLY A 3		63.556			1.00 38.08
MOTA	2863	С	GLY A 3	357	63.719	25.932	109.830	
	2864	0	GLY A 3	357	64.112	25.250	108.885	1.00 37.29
MOTA			GLY A		63.406	27.218	109.721	1.00 39.67
ATOM	2865	N				27.925		1.00 36.36
ATOM	2866	CA	GLY A		63.493	21.923		1.00 39.45
MOTA	2867	С	GLY A	358	62.398	28.966	108.499	
MOTA	2868	0	GLY A	358	61.763	29.131	109.539	1.00 37.58
			GLU A		62.163	29.662	107.391	1.00 40.89
MOTA	2869	N			61.121		107.358	1.00 41.37
MOTA	2870	CA	GLU A			30.002	106.172	1.00 44.64
MOTA	2871	CB	GLU A	359	61.310			
ATOM	2872	CG	GLU A	359	60.956	30. 9 77	104.848	1.00 52.13
	2873	CD	GLU A		60.833	31.973	103.708	1.00 59.14
MOTA				359	60.448	31 551	102.593	1.00 60.47
MOTA	2874					33.173		1.00 57.77
ATOM	2875	OE2			61.119			1.00 38.02
ATOM	2876	С	GLU A	359	59.770	30.006		
	2877	0	GLU A	359	59.689	28.828		1.00 35.29
ATCM		N	VAL A		58.708	30.762	107.441	1.00 36.81
ATOM	. 2878				57.363	30.237		1.00 35.97
ATOM	2879	CA	VAL A			20.22	108.368	1.00 34.90
MOTA	2880	CB	VAL A		56.401	30.763	100.303	1.00 36.53
ATOM	2881	CG1	VAL A	360	54.999		108.133	
	2882	CG2	VAL A	360	56.888	30.393	109.755	1.00 37.06
ATOM			VAL A		56.886	30.690	105.928	1.00 36.74
ATOM	2883	C			56.661	31 881	105.712	1.00 34.90
ATOM	2884	0	VAL A			20.741	105.004	
ATOM	2885	N	ARG A	361	56.753	29.741	103.004	1.00 38.21
ATCM	2886	CA	ARG A	361	56.301	30.045	103.652	
	2887	СВ	ARG A	361	56.152	28.776	102.815	1.00 39.76
ATOM			ARG A		57.416	28.342	102.098	1.00 39.93
ATOM	2888	CG				26 963	101.486	
ATCM	2889	CD	ARG A		57.225	20.903	, 101.400	1.00 39.72
ATCM	2890	NE	ARG A	361	57.112	25.940	102.525	
	2891	CZ	ARG A		56.952	24.64	3 102.286	1.00 38.79
ATOM					56.881	24.200	101.036	1.00 32.40
MOTA	2892	NHl				23.78		1.00 36.58
MOTA	2893	NH2			56.899			1.00 38.98
ATOM	2894	С	ARG A	361	54.996	30.80	7 103.603	1.00 30.30
	2895	ŏ	ARG A	361	54.120	30.63	6 104.452	1.00 39.07
ATCM						31.63	4 102.573	1.00 39.95
ATCM	2896	N	LYS A				9 102.339	
ATCM	2897	CA	LYS A		53.709			
ATOM	2898	CB	LYS A	362	53.931		1 101.078	
		CG	LYS A		54.995	34.39	0 101.219	1.00 55.45
ATOM	2899		LYS A	362	56.351			1.00 58.28
ATCM	2900						9 100.697	
ATOM	2901	CE	LYS A		56.907	32.00	2 101 151	
ATOM	2902		LYS A		58.224		3 101.151	
	2903		LYS A		52.434	31.63	4 102.200	
ATOM			LYS A		51.391		6 102.748	1.00 36.10
ATOM	2904	0	PIS W	502	22.22			

_		2005	M CI	U A :	363	52.	506	30.527	101.469	1.00 3	7.79
	MOT	2905		UA			313	29.705	101.295	1.00 4	0.96
	MOTA	2906		UA			587	28.530	100.347	1.00 4	3.62
	MOTA	2907 2908		UA			729	27.616	100.739	1.00 4	
	MOTA	_		UA			995	26.547	99.683	1.00 5	
	MOTA	2909 2910		UA			080	25.737	99.409	1.00 4	
	MOTA		OE2 GL	U A	363		116	26.526	99.125	1.00 4	
	MOTA	2911		U A			788	29.209	102.636	1.00 3	7.74
	MOTA	2912		U A		-	. 582	29.113	102.834	1.00 3	4.79
	MOTA	2913 2914		LA			. 691	28.910	103.564	1.00 3	
	ATOM	2914		LA			.274	28.455		1.00 3	
	MOTA	2916		L A		52	.484		105.749	1.00	
	MOTA	2917	CG1 VA			52	.018	27.676	107.160	1.00	
	MOTA	2918	CG2 VA	AL A	364	53	.198	26.8 67	105.109	1.00 2	
	ATOM ATOM	2919		AL A		50	.506	29.574	105.589	1.00	
	ATOM ATOM	2920	0 V2	AL A	364	49	.454	29.336	106.188	1.00	38.12
	MOTA	2921	N LY	S A	365		.027		105.499	1.00	
	ATOM	2922	CA LY	(S A	365	50	.381		106.119	1.00	37 98
	ATOM	2923	CB LY	YS A	365		.255	33.204	105.969	1.00	37.90
	ATOM	2924	CG L	YS A	365		.629	33.084	106.610	1.00	
	ATOM	2925	CD L	YS A	365		.449	34.357	106.429 107.032	1.00	
	ATOM	2926	CE L	YS A	365		.837	34.190		1.00	
	ATOM	2927	NZ L	YS A	365	55	.674	35.407			36.62
	ATOM	2928	CL	YS A	365		.025	32.191			33.53
	ATOM	2929	O L	YS A	365		.038	32.469		1 00	37.05
	ATOM	2930		SP A			.968	32.073 32.278		1 00	37.72
	MOTA	2931		SP A			.708	32.276		1.00	40.57
	ATOM	2932		SP A			.906	33.334		1.00	43.98
	ATOM	2933	CG A	SP A	366		8.833	34.304		1.00	38.51
	MOTA	2934	OD1 A	SP A	366		0.078	33.235		1.00	
	MOTA	2935	OD2 A	SP A	366		5.670	31.238		1.00	39.24
	MOTA	2936	C A	SP A	366		5.497	31.562		1.00	39.04
	MOTA	2937	0 A	SP A	366		7.096	29.990		1.00	38.99
	MOTA	2938	и т	HR A	307 367		5.167	28.935			36.80
	MOTA	2939		HR A	367		5.868	27.560			33.84
	MOTA	2940		HR A		4	7.332	27.167	103.232		34.92
	ATOM	2941		HR A		4.	5.904	26.509	105.046		35.11
	MOTA	2942		HR A			5.532	29.257	7 105.786		36.58
	MOTA	2943 2944		HR A			4.307	29.202	2 105.931		30.18
	MOTA	2945			368	4	6.363	29.583	1 106.776		35.32
	MOTA	2946			368	4	5.850	29.92	5 108.095	1.00	35.46
	MOTA MOTA	2947	CB I	EU A	368		6.997	30.16	9 109.077		34.03 39.04
	ATOM	2948	CG I	LEU A	368		7.545		5 109.794		
	MOTA	2949	CD1 I				6.449		8 110.688		39.52
	MOTA	2950	CD2 I	LEU A	368		8.014		1 108.797		38.12
	ATOM	2951	C I	LEU A	368		4.957		6 107.994		31.70
	ATOM	2952	0 1	LEU A	368		3.968	31.27	7 108.719 3 107.086		40.45
	ATOM	2953	N (GLU A	369		5.307		1 106.866		45.36
	ATOM	2954	CA (GLU A	369		4.509		6 105.76		47.38
	ATOM	2955	CB (GLU A	369		5.128		8 106.283		53.81
	MOTA	2956	CG (GLU ?	369		6.020		6 106.99		59.97
	ATOM	2957		GLU ?	369		5.227		2 107.52		60.65
	ATOM	2958	_	GLU A	369		5.846		1 107.01	6 1.00	63.69
	ATOM	2959		GLU /	369		3.980		5 106.46		43.23
	MOTA	2960		GLU A	A 369	4	3.100 2.130		3 107.09	5 1.00	44.62
	MOTA	2961		GLU	A 369		2.130		7 105.41	7 1.00	40.34
	MOTA	2962		LYS A	A 370		1.666	31.63	1 104.97	7 1.00	43.36
	ATOM	2963		LYS	A 370	,	1.738	30.77	13 103.70	4 1.00	44.79
	ATOM	2964		FX2	A 370		12.032	31.54	6 102.41	9 1.00	48.93
	ATOM	2965		LVC	A 370 A 370		3.50		4 102.01	9 1.00	51.41
	ATOM	2966		TAC PISS	A 370		3.92	1 30.11	l6 101.56	1 1.00	51.14
	ATOM	2967		IVC	A 370		15.33	9 30.06	2 101.09		50.34
	ATOM	2969 2969		LVS	A 370	4	10.95	9 30.84	18 106.06	9 1.0	0 43.09
	ATOM	296: 297(LYS	A 370		39.74		77 106.24	8 1.0	0 41.34
	ATOM	237	, ,								

			 54.0 .0 .	•		
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2971 2972 2973 2974 2975 2976 2977 2978 2979 2980 2981 2982 2983	N ALA A 371 CA ALA A 371 CB ALA A 371 C ALA A 371 O ALA A 371 N LYS A 372 CA LYS A 372 C LYS A 372 C LYS A 372 C LYS A 372 CB LYS A 372 CB LYS A 372 CC LYS A 372	41.715 41.120 42.193 40.365 39.230 40.981 40.391 39.052 38.294 41.334 42.804 43.746 45.216	29.238 28.440 30.132 29.829 31.239 32.178 32.698 33.318 33.364 32.949 34.131 33.715		1.00 39.56 1.00 43.57 1.00 39.11 1.00 46.10 1.00 46.62 1.00 48.18 1.00 51.67 1.00 53.21 1.00 47.22 1.00 20.00 1.00 20.00 1.00 20.00 1.00 20.00
MOTA	2984	NZ LYS A 372 N ALA A 373	46.121 38.751	32.476	108.397	1.00 57.71
MOTA ATOM	2985 2986	CA ALA A 373	37.492		107.806	1.00 58.67 1.00 57.19
MOTA	2987	CB ALA A 373	37.758 36.524	33.632 31.773	106.480 107.594	1.00 59.58
MOTA	2988 2989	C ALA A 373 O ALA A 373	35.432	31.797	108.205	1.00 60.89
MOTA MOTA	2990	OXT ALA A 373	36.870	30.853	106.822 56.836	1.00 60.10 1.00 55.77
MOTA	3014	CB ALA B 2	54.881 53.960	-4.431 -2.137	56.480	1.00 57.58
MOTA	3015 3016	C ALA B 2 O ALA B 2	54.920	-1.720	57.131	1.00 56.75
MOTA MOTA	3017	N ALA B 2	54.263	-3.672	54.557 56.008	1.00 58.22 1.00 58.47
ATOM	3018	CA ALA B 2 N LYS B 3	53.914 52.919	-3.584 -1.376	56.151	1.00 52.79
MOTA MOTA	3019 3020	N LYS 3 3 CA LYS 3 3	52.855	0.022	56.543	1.00 49.68
MOTA	3021	CB LYS B 3	51.643 51.751	0.700 0.785	55.896 54.377	1.00 53.14 1.00 53.37
MOTA	3022 3023	CG LYS B 3	50.685	1.681	53.786	1.00 55.40
MOTA MOTA	3023	CE LYS B 3	50.808	1.783	52.277	1.00 59.51 1.00 56.88
ATOM	3025	NZ LYS B 3	52.140 52.849	2.323 0.238	51.884 58.059	1.00 46.83
MOTA	3026 3027	C LYS B 3 O LYS B 3	52.389	-0.607	58.830	1.00 41.63
MOTA MOTA	3028	N VAL B 4	53.376	1.385	58.467 59.871	1.00 41.46 1.00 40.85
MOTA	3029	CA VAL 3 4 CB VAL B 4	53.483 54.893	1.751 2.288		1.00 39.55
MOTA ATOM	3030 3031	CB VAL B 4 CG1 VAL B 4	55.070	2.541	61.648	1.00 41.23 1.00 38.96
MOTA	3032	CG2 VAL B 4	55.916 52.451	1.306 2.813		1.00 38.92
MOTA	3033	C VAL B 4 O VAL B 4	52.472	3.916	59.691	1.00 42.80
MOTA MOTA	3034 3035	N LYS B 5	51.559	2.479		1.00 34.90 1.00 31.22
ATOM	3036	CA LYS B 5	50.501 49.133	3.396 2.796		1.00 33.76
MOTA	3037 3038	CB LYS B 5	48.841	2.623	59.726	1.00 36.60
MOTA MOTA	3039	CD LYS B 5	48.667	3.964		1.00 41.48 1.00 43.62
MOTA	3040	CE LYS 3 5 NZ LYS 3 5	48.234 49.215	3.803 3.025		1:00 42.53
ATOM ATOM	3041 3042	NZ LYS B 5	50.512	3.749	63.038	1.00 32.67 1.00 25.78
MOTA	3043	O LYS B 5	51.012	2.995 4.906		
MOTA	3044		49.937 49.821			1.00 31.09
MOTA MOTA	3045 3046		50.596	6.696	64.896	1.00 30.13 1.00 28.09
MOTA	3047	CG LEU B 6	50.691			
MOTA	3048		49.333 51.248			1.00 24.87
MOTA MOTA	3049 3050	C LEU B 6	48.324	5.59	4 64.924	
MOTA	3051	O LEUB 6	47.669 47.777			1.00 28.02
MOTA	3052 3053		46.361	5.11	66.250	1.00 23.83
MOTA MOTA	3054	CB ILE B 7	45.736		1 66.670 4 67.127	
MOTA	3055	CG2 ILE B 7	44.309 45.690			1.00 31.00
ATOM	3056 3057	CDI TLE B 7	47.021	2.40	6 64.906	1.00 38.60
MOTA MOTA	3058	C ILE B 7	46.179	6.13		
MOTA	3059		46.766	6.00	اد*،٥٠ ر	, 1.00 20.00

							- 454	cm 106	1.00 29.51
ATOM	3060	N	GLY B	8		45.372	7.151	• – .	1.00 23.31
	3061		GLY B	8		45.151	8.170		1.00 30.28
ATOM				8		44.217	9.273	67.667	1.00 28.79
ATOM	3062		GLY B				9.207	66.590	1.00 19.70
ATOM	3063	0	GLY B	8		43.629			1.00 26.46
MOTA	3064	N	THR B	9		44.088	10.291	68.509	
	_		THR B	9		43.234	11.438	68.238	1.00 29.37
ATOM-	3065					41.748	11.064	68.311	1.00 32.64
ATOM	3066		THR B	9				68.218	1.00 30.35
MOTA	3067	OG1	THR B	9		40.959	12.253		1.00 33.42
MOTA	3068	CG2	THR B	9		41.431	10.383	69.637	
			THR B	9		43.479	12.496	69.302	1.00 33.42
ATOM	3069					43.884	12.173	70.416	1.00 30.46
ATOM	3070	0	THR B	9			13.754	68.961	1.00 32.05
ATOM	3071	N	LEU B.	10		43.228		69.914	1.00 34.75
ATOM	3072	CA	LEU B	10	-	43.396	14.840		
	3073	CB	LEU B	10		43.381	16.189	69.190	1.00 38.02
MOTA			LEU B	10		44.605	16.578	68.355	1.00 40.82
MOTA	3074	CG				44.961	15.472	67.394	1.00 43.62
MOTA	3075		LEU B	10			17.869	67.605	1.00 34.99
MOTA	3076	CD2	LEU B	10		44.314			1.00 34.25
ATOM	3077	С	LEU B	10		42.272	14.809	70.945	1.00 34.23
	3078	ō	LEU B	10		42.415	15.348	72.042	1.00 33.13
ATOM				11		41.158	14.169	70.595	1.00 30.61
MOTA	3079	N	ASP B			40.011	14.098	71.501	1.00 33.08
ATOM	3080	CA	ASP B	11				70.945	1.00 37.57
ATOM	3081	CB	ASP B	11		38.928	13.167		1.00 43.14
	3082	CG	ASP B	11		38.372	13.643	69.621	
MOTA			ASP B	11		38.013	14.834	69.525	1.00 42.22
ATOM	3083					38.281	12.825	68.681	1.00 45.58
MOTA	3084		ASP B			40.358	13.654	72.919	1.00 32.19
MOTA	3085	C	ASP B					73.875	1.00 23.44
MOTA	3086	0	ASP B	11		39.688	14.053	73.075	1.00 28.02
	3087	N	TYR B	12		41.386	12.822	73.066	
ATOM	3088	CA	TYR B			41.770	12.373	74.402	1.00 32.00
MOTA						43.011	11.476	74.363	1.00 28.67
MOTA	3089	CB	TYR B				10.108	73.737	1.00 25.33
ATOM	3090	CG	TYR E			42.821	9.823	72.475	1.00 23.74
ATOM	3091	CD1	TYR E	12		43.338			1.00 22.85
	3092	CE1	TYR E	12		43.235	8.546	71.924	
MOTA	3093	CD2				42.183	9.077	74.436	1.00 21.93
ATOM						42.074	7.793	73.889	1.00 21.99
MOTA	3094	CE2				42.605	7.538	72.640	1.00 22.99
MOTA	3095	CZ	TYR E				6.273	72.109	1.00 18.79
MOTA	3096	OH	TYR E	3 12		42.532			1.00 32.74
ATOM	3097	C	TYR F	3 12		42.054	13.567	75.319	
	3098	ō	TYR F			41.986	13.450	76.542	1.00 23.85
MOTA						42.374	14.710	74.720	1.00 26.96
MOTA	3099	N	GLY F			42.658	15.900	75.501	1.00 34.92
ATOM	3100	CA	GLY I				16.396	76.277	1.00 36.82
MOTA	3101	С	GLY I			41.452			1.00 34.10
ATOM	3102	0	GLY I	в 13		41.580	17.228	77.176	
	3103	N	LYS I	в 14		40.279	15.875	75.929	
ATOM		CA	LYS			39.031	16.247	76.584	1.00 41.77
ATOM	3104					37.925	16.406	75.537	1.00 45.82
MOTA	3105	CB	LYS			38.110	17.585	74.579	1.00 51.38
MOTA	3106	CG	LYS :			30.110		75.241	1.00 57.78
ATOM	3107	CD	LYS	B 14		37.805	18.939		
-	3108	CE	LYS			38.752	19.285	76.388	
MOTA		NZ	LYS			38.387	20.568	77.070	1.00 55.06
ATOM	3109			-		38.591	15.226	77.627	1.00 39.50
ATOM	3110	C	LYS	_		37.546	15.385		
MOTA	3111	0	LYS						
ATOM	3112	N	TYR	B 15		39.395	14.186		
	3113		TYR			39.070			
ATOM			TYR			38.863	11.827	77.990	1.00 44.42
ATOM	3114					37.850			1.00 42.02
ATCM	3115		TYR						
ATOM	3116	CD	1 TYR			38.064			
ATOM	3117			B 15		37.138			
						36.678	12.703		
ATOM	3118		_			35.748			1.00 43.30
ATOM	3119					35.984			1.00 45.49
ATOM	3120	CZ		_					
ATOM	3121					35.066			
ATOM	3122		TYR	B 15		40.151			
	3123		TYR			40.519			
ATOM	2143	, 5	ARG			40.647		80.381	
ATCM	3124		_			41.686			1.00 43.70
ATOM	3125	CA	ARG	B 16		-1.000			

					 5	_		
MOTA	3126	св 2	ARG B	16	42.250	15.410		1.00 49.13
ATOM	3127		ARG B	16	42.656	16.197		1.00 54.22 1.00 55.13
MOTA	3128		ARG B	16	43.858	15.624	79.751 78.718	1.00 62.87
MOTA	3129		ARG B	16	44.303	16.549 17.818	78.951	1.00 64.92
MOTA	3130		ARG B	16	44.628 44.556	18.308	80.182	1.00 65.86
MOTA	3131		ARG B	16 16	45.022	18.600	77.954	1.00 67.15
MOTA	3132		ARG B ARG B	16	41.093	13.531	82.728	1.00 42.97
ATOM	3133	-	ARG B	16	39.882	13.593	82.927	1.00 38.44
ATOM	3134 3135		TYR B	17	41.949	13.056	83.628	1.00 39.36
ATOM ATOM	3136		TYR B	17	41.494	12.637	84.945	1.00 37.67 1.00 31.69
ATOM	3137		TYR B	17	42.500	11.679	85.584	1.00 31.09
ATOM	3138	_	TYR B	17	42.413	10.250 9.944	85.087 83.732	1.00 22.89
MOTA	3139		TYR B	17	42.530 42.502	8.618	83.287	1.00 21.42
MOTA	3140		TYR B	17 17	42.302	9.196	85.984	1.00 24.67
ATOM	3141 3142		TYR B	17	42.229	7.873	85.556	1.00 24.48
MOTA	3142	CZ	TYR B	17	42.355	7.587	84.210	1.00 27.13
MOTA MOTA	3144	OH	TYR B	17	42.371	6.271	83.796	1.00 19.94 1.00 38.94
ATOM	3145	С	TYR B	17	41.377	13.927	85.765 85.391	1.00 39.65
MOTA	3146	0	TYR B	17	41.947	14.951 13.893	86.891	1.00 41.27
MOTA	3147	N	PRO B	18	40.647 39.958	12.728	87.462	1.00 43.62
MOTA	3148	CD	PRO B	18 18	40.448	15.058	87.762	1.00 45.33
MOTA	3149	CA CB	PRO B	18	39.648	14.473	88.928	1.00 44.09
MOTA MOTA	3150 3151	CG	PRO B	18	40.096	13.015	88.933	1.00 49.22
MOTA	3152	C	PRO B	18	41.702	15.809	88.221	1.00 45.86 1.00 45.44
ATOM	3153	0	PRO B	18	42.789	15.244	88.317 88.507	1.00 43.44
ATOM	3154	N	LYS B	19	41.506	17.095 18.040	88.952	1.00 51.03
MOTA	3155	CA	LYS B	19	42.535 41.873	19.122	89.814	1.00 56.35
MOTA	3156	CB	LYS B	19 19	40.630	18.657	90.563	1.00 65.69
MOTA	3157 3158	CG CD	LYS B	19	40.894	17.441	91.423	1.00 68.96
MOTA MOTA	3159	CE	LYS B	19	39.602	16.882	91.999	1.00 71.85 1.00 72.79
ATOM	3160	NZ	LYS B	19 .	39.825	15.603	92.731 89.639	1.00 72.79 1.00 48.62
MOTA	3161	C	LYS B	19	43.830	17.593 18.009	89.235	1.00 49.04
MOTA	3162	0	LYS B	19	44.912 43.745	16.775	90.678	1.00 43.99
MOTA	3163	N	ASN B	20 20	44.957	16.356	91.375	1.00 43.86
MOTA	3164 3165	CA CB	ASN B		44.740	16.440	92.890	1.00 45.92
ATOM ATOM	3166	CG	ASN B	_	44.418	17.848	93.355	1.00 49.44 1.00 47.72
ATOM	3167	OD1	ASN B	20	45.194	18.779	93.138 93.999	1.00 47.72
MOTA	3168		ASN B		43.268 45.460	18.011 14.960		
MOTA	3169	C	ASN E		45.460			1.00 38.24
ATCM	3170		ASN E		44.729		90.140	1.00 36.93
ATOM	3171 3172	N CA	HIS E		45.091	12.923	გ√,723	
ATOM	3172		HIS E		43.948	12.299	87.924	1.00 28.67 1.00 32.14
ATOM ATOM	3174		HIS E		44.068		88.750 87.867	
ATOM	3175	CD2	2 HIS E	3 21	44.779			
ATOM	3176		HIS E	3 21	43.431			
MOTA	3177	_	HIS F		43.743 44.560			1.00 29.71
ATOM	3178				46.348			1.00 29.06
ATOM	3179		HIS I		46.536		88.015	
MOTA	3180 3181		PRO		47.225	11.937		
ATOM ATOM	3182		PRO		47.187			
ATOM	3183		PRO :	в 22	48.440			
ATOM	3184	CB		B 22	49.05			1.00 31.07
ATCM	3185				43.65 48.17	6 11.95		1.00 28.52
ATOM	3186		PRO		48.17			2 1.00 31.85
ATOM			PRO LEU		47.03		5 86.29	7 1.00 24.47
ATOM			_		46.68	5 11.43	4 84.87	
ATOM			_	_	45.93	3 10.14		
ATOM ATOM					46.76	0 8.85	2 84.55	0 1.00 23.32
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М	3192	CD1	LEU B	23	4.5	.868	7.628	84.402	1.00 24.94
M	3193		LEU B	23		7.805	8.905	83.446	1.00 24.80
M	3194	2	LEU B	23	45	5.891	12.638	84.367	1.00 27.95
M	3195	Э	LEU B	23	4.5	5.166	12.528	83.373	1.00 24.42
M	3196	71	LYS B	24		5.011	13.793	85.018	1.00 31.01
M	3197	CA	LYS B	24		5.261	14.946	84.530	1.00 29.40
М	3198	CB	LYS B	24		1.934	15.923	85.665	1.00 33.03
M	3199	CG	LYS B	24		5.979	16.969	85.999	1.00 33.54 1.00 39.10
·M	3200	CD	LYS B	24		7.300	16.397	86.422 87.152	1.00 45.49
M	3201	CE	LYS B	24		3.109	17.466 18.737	86.380	1.00 45.45
M	3202	NZ	LYS B	24		3.224 5.039	15.653	83.425	1.00 30.02
M	3203	C	LYS B	24 24		5.508	16.523	82.736	1.00 28.82
M	3204 3205	C K	LYS B	25		7.298	15.262	83.246	1.00 25.93
)M)M	3205	CA	ILE B	25		3.139	15.858	82.212	1.00 29.48
)M	3207	CB	ILE B	25		9.641	15.528	82.409	1.00 33.61
)M	3208	CG2	ILE B	25	5	0.126	16.033	83.775	1.00 32.27
)M	3209	CG1	ILE B	25		9.851	14.014	82.263	1.00 28.17
M	3210	CD1	ILE B	25		1.310	13.584	82.188	1.00 36.32
M	3211	С	ILE B	25		7.784	15.318	80.834 80.704	1.00 30.08 1.00 25.37
M	3212	0	ILE B	25		7.263	14.210 16.101	79.783	1.00 29.19
M	3213	71	PRO B	26		8.064 8.650	17.448	79.770	1.00 32.47
MC	3214	CD	PRO B	26 26		7.782	15.673	78.413	1.00 29.52
M	3215	CA	PRO B	26		8.103	16.921	77.593	1.00 29.84
M(3216 3217	CB CG	PRO B	26		7.930	18.046	78.599	1.00 36.40
M(M(3218	C	PRO B	26		8.789	14.561	78.137	1.00 27.64
)M	3219	õ	PRO B	26	. 4	9.920	14.620	78.629	1.00 23.08
MC	3220	N	ARG B	27	4	8.403	13.557	77.360	1.00 23.09
MC	3221	CA	ARG B	27	4	9.326	12.469	77.072	1.00 23.00
MC	3222	CB	ARG B	27		8.987	11.264	77.962	1.00 26.21
MC	3223	CG	ARG B	27		9.101	11.617	79.449	1.00 17.03 1.00 26.83
MC	3224	CD	ARG B	27		8.663	10.507 9.375	80.416 80.502	1.00 20.03
MC	3225	NE	ARG B	27		9.586 9.444	8.220	79.856	1.00 25.06
MC	3226	CZ	ARG B	27 27		8.408	8.022	79.059	1.00 17.74
MC	3227 3228	NH1 NH2		27		0.336	7.253	80.027	1.00 23.38
MC	3229	C	ARG B	27		9.329	12.097	75.595	1.00 22.54
MC MC	3230	S	ARG B	27		0.214	12.526	74.852	1.00 21.86
MC	3231	N	VAL B	28		8.352	11.318	75.148	1.00 20.64
MC	3232	CA	VAL B	28		8.337	10.954	73.739	1.00 26.57
OM	3233	CB	VAL B	28		7.242	9.917	73.424	1.00 30.92 1.00 27.04
OM	3234	CG1		28		7.195	9.645	71.925 74.172	1.00 27.04 1.00 25.45
OM	3235	CG2	VAL B	28		7.535	8.616 12.189	72.866	1.00 28.02
OM	3236	0	VAL B	28		8.150 8.780	12.103	71.808	1.00 30.88
OM	3.737	2	VAL B SER B	28 29		7.298	13.112	73.304	1.00 24.30
OM	3.38 3139	N CA	SER B	29		7.082	14.326	72.523	1.00 29.48
MO MC	3240	CB	SER B	29		5.939	15.169	73.110	1.00 31.72
OM	3241	ЭG	SER B	29		6.218	15.614	74.424	1.00 34.55
OM	3242	С	SER B	29		8.379	15.125	72.514	1.00 30.81
OM	3243	Э	SER B	29		8.680	15.820	71.545	1.00 28.85
OM	3244	N	LEU B	30		9.157	15.003	73.589	1.00 29.63
MO'	.3245	CΑ	LEU B	30		0.427	15.721	73.679 75.079	1.00 31.59 1.00 29.49
MO'	3246	CB	LEU B	30		1.046	15.593 16.660	75.513	1.00 34.37
MO,	3247	CG	LEU B	30 30		2.937	16.083	76.610	1.00 30.15
'OM	3248	CD1		30		2.951	17.098	74.357	1.00 32.90
MO'	3249 3250	2	LEU B	30		1.371	15.085	72.672	1.00 25.90
MO' MO'	3251	5	LEU B	30		2.052	15.777	71.913	1.00 25.10
'OM	3252	N	LEU B	31	5	1.404	13.756	72.675	1.00 22.10
MO	3253	CA	LEU B	31	9	2.268	13.013	71.764	1.00 25.52
'OM	3254	CB	LEU B	31		1.966	11.514	71.842	1.00 26.41
OM	3255	CG	LEU B	31		3.066	10.524	71.441	1.00 28.93 1.00 23.69
OM	3256		LEU B	31		2.425	9.198	71.042 70.300	1.00 23.03
MOT	3257	CD2	LEU B	31	5	3.873	11.049	,0.500	1.00 50.41

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ATOM	3258	С	LEU 3	31		52.010	13.489	70.335	1.00 25.38
MOTA	3259		LEU 3	31		52.940	13.851	69.614	1.00 21.03
ATOM	3260	N	LEU B	32		50.741	13.481	69.933	1.00 21.27
ATOM	3261	CA	LEU 3	32		50.364	13.899	68.585	1.00 27.91 1.00 26.60
ATOM	3262	CB	LEU B	32		48.841	13.798	68.408	1.00 28.30
ATOM	3263	CG	LEU 3	32		48.195	12.419	68.614	1.00 31.60
MOTA	3264	CD1.		32		46.699	12.504	68.321 67.708	1.00 31.00
MOTA	3265	CD2	LEU 3	32		48.837	11.391	68.242	1.00 26.07
MOTA	3266	С	TEO 3 ·	32		50.835	15.317	67.205	1.00 22.45
MOTA	3267	0	LEU 3	32		51.458 50.545	15.533 16.282	69.111	1.00 28.19
MOTA	3268	N	ARG 3	33	•	50.962	17.660	68.865	1.00 31.77
MOTA	3269	CA	ARG B	33 33		50.395	18.601	69.930	1.00 34.22
MOTA	3270	CB	ARG B	33		48.887	18.740	69.904	1.00 40.33
MOTA	3271 3272	CG CD	ARG B	33		48.420	19.713	70.970	1.00 47.67
MOTA	3272	NE	ARG B	33		46.977	19.931	70.924	1.00 56.24
ATOM ATOM	3274	CZ	ARG 3	33		46.330	20.505	69.912	1.00 60.10
MOTA	3275	NH1	ARG 3	33		46.997	20.929	68.845	1.00 63.11
MOTA	3276	NH2	ARG B	33		45.011	20.652	69.965	1.00 63.81
ATOM	3277	С	ARG 3	33		52.476	17.791	68.852	1.00 30.12 1.00 30.20
ATOM	3278	0	ARG 3	33		53.028	18.580	68.097	1.00 30.20 1.00 30.70
ATOM	3279	N	PHE 3	34		53.147	17.012	69.694	1.00 30.70
MOTA	3280	CA	PHE B	34		54.600	17.060	69.774 70.920	1.00 29.42
MOTA	3281	CB	PHE B	34		55.096		70.920	1.00 28.56
ATOM	3282	CG	PHE B	34		56.556	16.358 17.515	71.885	1.00 26.92
MOTA	3283		PHE B	34		57.001 57.481	15.373	70.932	1.00 28.88
MOTA	3284	CD2	PHE B	34 34		58.346	17.684	72.206	1.00 28.15
MOTA	3285	CE1	PHE B	34		58.831	15.530	71.246	1.00 31.47
ATOM	3286 3287	CE2	PHE B	34		59.265	16.689	71.887	1.00 28.15
ATOM	3288	C	PHE B	34		55.202	16.583	68.460	1.00 33.78
MOTA MOTA	3289	Ö	PHE 3	34		56.049	17.259	67.873	1.00 33.71
ATOM	3290	N	LYS B	35		54.770	15.413	67.999	1.00 28.65
ATOM	3291	CA	LYS 3	3,5		55.294	14.880	66.753	1.00 34.33
ATOM	3292	CB	LYS B	35		54.684	13.509	66.454	1.00 32.97 1.00 34.93
ATOM	3293	CG	LYS B	35		55.141	12.423	67.414	1.00 34.93 1.00 41.43
MOTA	3294	CD	LYS B	35		54.580	11.066	67.047 67.205	1.00 44.04
ATOM	3295	CE	LYS B	35		53.070	11.004 11.984	66.345	1.00 60.09
MOTA	3296	NZ	LYS 3	35		52.335 55.015	15.842	65.608	1.00 35.78
MOTA	3297	C	LYS B	35 35		55.869	16.061	64.752	1.00 33.39
MOTA	3298	0 N	LYS B	36		53.823	16.426	65.602	1.00 32.32
MOTA	3299 3300	N CA	ASP 3	36		53.468	17.365	64.552	1.00 36.31
ATOM	3301	CB	ASP 3	36		52.015	17.800	64.698	1.00 42.56
ATOM ATOM	3302	CG	ASP 3	36		51.617	18.822	63.661	1.00 43.03
MOTA	3303		ASP 3	36		51.812	18.544		1.00 79.17
ATOM	3304		ASP B	36		51.111	19.897	64.043	1.00 .4.34
ATOM	3305	С	ASP 3	36		54.371	18.590	64.578	1.00 6.14
ATOM	3306	0	ASP 3	36		54.764	19.099	63.534 65.777	1.00 34.80
MOTA	3307	. N	ALA B	37		54.694	19.061 20.226	65.924	
ATOM	3308	CA	ALA B	37		55.554	20.226	67.383	1.00 38.54
MOTA	3309	CB	ALA B	37		55.599 56.959	19.901	65.429	
MOTA	3310	C	ALA B	37		57.675	20.776		
MOTA	3311	0	ALA B MET B			57.346	18.635	65.541	1.00 37.42
MOTA	3312	Ŋ	MET 3			58.670	18.192	65.107	1.00 36.25
ATOM	3313	CA CB	MET B	_		59.158	17.059		1.00 36.44
ATOM	3314	CG	MET B			59.341	17.438	67.474	1.00 37.68
MOTA	3315 3316	SD	MET B			60.841	18.391		
MOTA	3317	CE	MET 3			62.093	17.228		
atom atom	3318	c	MET B			58.639	17.690		1.00 35.86
ATOM	3319		MET B			59.659	17.262	63.130	
ATOM	3320		ASN B			57.470	17.742	63.035	
ATOM	3321		ASN E	39		57.321			
ATOM	3322	CB				58.156			-
ATOM	3323		ASN E	3 3 9		57.670	19.543	, 00.391	1.00 41.51

ATOM 3331 CG LEU B 40 59.595 14.073 64.227 1.00 38.21 ATOM 3332 CD1 LEU B 40 60.148 13.648 65.573 1.00 36.57 ATOM 3333 CD2 LEU B 40 60.646 13.880 63.145 1.00 36.79 ATOM 3335 C LEU B 40 56.637 11.438 62.573 1.00 35.421 ATOM 3336 N ILE B 41 55.476 13.131 61.663 1.00 36.79 ATOM 3337 CA ILE B 41 55.476 13.131 61.663 1.00 36.79 ATOM 3338 CB ILE B 41 52.367 10.980 62.536 1.00 35.21 ATOM 3339 CG2 ILE B 41 52.367 10.980 62.141 1.00 35.42 ATOM 3339 CG2 ILE B 41 52.367 10.980 62.141 1.00 32.68 ATOM 3340 CG1 ILE B 41 52.367 10.980 62.141 1.00 32.68 ATOM 3341 CD1 ILE B 41 51.470 10.550 63.285 1.00 36.46 ATOM 3342 C ILE B 41 53.345 11.991 62.536 1.00 37.52 ATOM 3343 N ASF B 42 52.593 13.271 60.183 1.00 40.24 ATOM 3344 N ASF B 42 52.943 12.114 59.345 1.00 39.55 ATOM 3344 N ASF B 42 52.943 12.114 59.345 1.00 39.55 ATOM 3343 C ASF B 42 52.956 12.119 56.901 1.00 45.30 ATOM 3346 CB ASF B 42 52.569 12.119 56.901 1.00 45.30 ATOM 3348 CD1 ASF B 42 52.569 12.119 56.901 1.00 45.30 ATOM 3348 CD1 ASF B 42 52.4797 11.736 56.162 1.00 45.16 ATOM 3351 C ASF B 42 50.677 12.134 58.524 1.00 45.15 ATOM 3355 C ASF B 42 50.677 12.134 58.524 1.00 45.15 ATOM 3351 C ASF B 42 50.677 12.134 58.524 1.00 45.15 ATOM 3355 C ASF B 42 50.677 12.134 58.524 1.00 45.15 ATOM 3355 C ASF B 42 50.677 12.134 58.524 1.00 45.15 ATOM 3355 C GLU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3355 C GLU B 43 45.961 13.505 57.840 1.00 66.95 ATOM 3356 C C GLU B 43 47.941 13.637 57.571 1.00 55.50 ATOM 3360 C LYS B 44 48.699 1.00 59.52 ATOM 3360 C LYS B 44 48.699 1.00 59.52 ATOM 3360 C LYS B 44 48.699 1.00 59.52 ATOM 3360 C LYS B 44 48.699 1.00 59.52 ATOM 3360 C LYS B 44 48.699 1.00 59.52 ATOM 3360 C LYS B 44 48.699 1.00 59.52 ATOM 3360 C LYS B 44 48.699 1.00 59.52 ATOM 3360 C LYS B 44 48.699 1.00 59.52 ATOM 3370 C GLU B 43 47.972 11.205 57.880 1.00 66.95 ATOM 3370 C GLU B 45 50.968 7.989 59.176 1.00 34.76 ATOM 3370 C GLU B 45 50.968 7.999 59.176 1.00 34.76 ATOM 3370 C GLU B 45 50.968 7.999 59.176 1.00 34.76 ATOM 3370 C GLU B 45 50.968 7.999 59.176 1.00 34.76 ATOM 3370 C GLU B	ATOM ATOM ATOM ATOM ATOM ATOM	3324 3325 3326 3327 3328 3329 3330	ND2 C O N	ASN B ASN B ASN B ASN B LEU B LEU B	39 39 39 40 40		56.524 58.540 57.759 58.465 57.332 57.700 58.347	19.801 20.486 15.804 15.416 14.997 13.590 13.248	60.212 60.933 61.569 60.639 62.535 62.556 63.898	1.00 48.78 1.00 46.52 1.00 39.12 1.00 35.75 1.00 34.64 1.00 35.10 1.00 35.97
ATOM 3333 CD_LEU B 40		3331								
ATOM 3334 C LEU B 40 56.6549 12.626 62.264 1.00 37.58 ATOM 3335 O LEU B 40 56.657 11.438 62.573 1.00 39.15 ATOM 3336 N ILE B 41 55.476 13.131 61.663 1.00 36.79 ATOM 3337 CA ILE B 41 55.476 13.131 61.663 1.00 35.42 ATOM 3338 CB ILE B 41 52.367 10.980 62.536 1.00 35.42 ATOM 33340 CG1 ILE B 41 52.367 10.980 62.141 1.00 35.21 ATOM 3340 CG1 ILE B 41 52.367 10.980 62.141 1.00 32.68 ATOM 3341 CD1 ILE B 41 53.352 14.157 60.289 1.00 37.58 ATOM 3343 N ASP B 42 52.943 12.114 69.345 1.00 39.55 ATOM 3344 N ASP B 42 52.943 12.114 69.345 1.00 39.55 ATOM 3345 CA ASP B 42 52.943 12.114 69.345 1.00 39.55 ATOM 3345 CA ASP B 42 52.944 12.615 58.273 1.00 45.30 ATOM 3348 OD1 ASP B 42 52.964 12.615 58.273 1.00 45.30 ATOM 3349 OD2 ASP B 42 52.964 12.615 58.273 1.00 45.30 ATOM 3349 OD2 ASP B 42 52.964 12.615 58.273 1.00 45.16 ATOM 3350 C ASP B 42 50.677 12.714 56.5668 1.00 47.09 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 47.09 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 47.05 ATOM 3355 CC ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3355 CC GGLU B 43 48.303 12.618 58.312 1.00 50.54 ATOM 3355 CG GGLU B 43 47.441 13.637 57.571 1.00 64.03 ATOM 3355 CG GLU B 43 47.441 13.637 57.571 1.00 64.03 ATOM 3355 CG GLU B 43 47.441 13.637 57.571 1.00 66.95 ATOM 3355 CG GLU B 43 47.972 11.205 57.836 1.00 47.06 ATOM 3355 CG GLU B 43 47.972 11.205 57.836 1.00 47.06 ATOM 3350 CC LVS B 44 48.690 10.744 56.817 1.00 66.95 ATOM 3355 CG GLU B 43 47.972 11.205 57.836 1.00 49.96 ATOM 3360 CC LVS B 44 49.207 9.311 54.894 1.00 59.96 ATOM 3360 CC LVS B 44 49.639 7.978 11.00 66.95 ATOM 3360 CC LVS B 44 48.690 10.744 56.817 1.00 66.95 ATOM 3360 CC LVS B 44 49.639 7.999 10.00 49.67 ATOM 3360 CC LVS B 44 48.690 10.744 56.817 1.00 61.03 ATOM 3360 CC LVS B 44 48.690 10.744 56.817 1.00 61.03 ATOM 3360 CC LVS B 44 48.690 10.744 56.817 1.00 61.03 ATOM 3360 CC LVS B 44 48.690 10.744 56.817 1.00 61.03 ATOM 3360 CC LVS B 44 48.690 10.744 56.817 1.00 61.03 ATOM 3370 CC GLU B 45 50.960 79.979 88.821 1.00 30.774 ATOM 3370 CC GLU B 45 50.960 79.99 58.821 1.00 33.774 ATOM									63.145	1.00 36.79
ATOM 3335 O LEU B 40 56.637 11.438 62.313 1.00 36.79 ATOM 3336 N ILE B 41 55.476 13.313 61.663 1.00 36.79 ATOM 3337 CA ILE B 41 54.340 12.290 61.314 1.00 35.421 ATOM 3338 CB ILE B 41 52.367 10.980 62.141 1.00 32.68 ATOM 3340 CGI ILE B 41 52.367 10.980 62.141 1.00 32.68 ATOM 3341 CDI ILE B 41 51.470 10.550 63.285 1.00 36.46 ATOM 3342 C ILE B 41 53.349 12.937 60.229 1.00 37.52 ATOM 3343 O LILE B 41 53.349 12.937 60.229 1.00 37.52 ATOM 3344 N ASP B 42 52.943 12.114 59.345 1.00 39.55 ATOM 3346 CB ASP B 42 52.941 12.615 58.273 1.00 45.30 ATOM 3346 CB ASP B 42 52.941 12.119 56.901 1.00 45.30 ATOM 3347 CG ASP B 42 52.941 12.197 60.283 1.00 45.30 ATOM 3348 ODI ASP B 42 52.959 12.119 56.901 1.00 45.30 ATOM 3349 ODZ ASP B 42 54.797 11.736 65.162 1.00 45.16 ATOM 3350 C ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.467 11.051 59.069 1.00 47.09 ATOM 3353 CA GUU B 43 48.303 12.618 58.312 1.00 45.16 ATOM 3355 CB GUU B 43 47.441 13.637 57.571 1.00 63.54 ATOM 3355 CB GUU B 43 47.441 13.637 57.571 1.00 63.54 ATOM 3355 CB GUU B 43 47.441 13.637 57.571 1.00 63.54 ATOM 3356 CD GUU B 43 47.441 13.637 57.751 1.00 63.54 ATOM 3357 OEI GUU B 43 47.441 13.637 57.751 1.00 63.54 ATOM 3356 CD GUU B 43 47.441 13.637 57.751 1.00 66.95 ATOM 3356 CD GUU B 43 47.441 13.637 57.751 1.00 66.54 ATOM 3357 OEI GUU B 43 47.792 11.205 57.840 1.00 49.67 ATOM 3360 CD LYS B 44 48.690 10.744 56.817 1.00 49.67 ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 49.96 ATOM 3366 CE LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3367 CB GUU B 45 53.998 8.504 58.813 1.00 34.758 ATOM 3368 CD LYS B 44 49.207 9.311 54.894 1.00 33.37 ATOM 3360 CD LYS B 44 49.207 9.311 54.894 1.00 33.37 ATOM 3361 N LYS B 44 48.899 8.295 7.161 1.00 66.403 ATOM 3366 CD LYS B 44 49.207 9.311 54.894 1.00 33.37 ATOM 3366 CD LYS B 44 49.207 9.311 54.894 1.00 33.37 ATOM 3366 CD LYS B 44 49.207 9.311 54.891 1.00 33.37 ATOM 3370 CD GUU B 45 50.990 55.510 1.00 66.95 ATOM 3371 CD GUU B 45 50.990 55.510 1.00 34.76 ATOM 3372 CD GUU B 45 50.990 59.176 1.00 33.37 ATOM 3373 CD GUU B 45 5							56.549		62.264	
ATOM 3337 CA LLE B 41 53.445 12.90 61.314 1.00 35.42 ATOM 3337 CA LLE B 41 53.445 11.991 62.536 1.00 35.21 ATOM 3339 CG LLE B 41 52.787 10.980 62.141 1.00 32.68 ATOM 3340 CGI LLE B 41 52.367 10.980 62.141 1.00 32.68 ATOM 3341 CDI LLE B 41 51.470 10.550 63.285 1.00 36.46 ATOM 3342 C LLE B 41 53.445 170 10.550 63.285 1.00 36.46 ATOM 3344 N ASP B 42 52.943 12.114 59.345 1.00 37.52 ATOM 3344 N ASP B 42 52.943 12.114 59.345 1.00 39.55 ATOM 3345 CA ASP B 42 52.954 12.615 58.273 1.00 45.30 ATOM 3346 CB ASP B 42 52.569 12.119 56.901 1.00 45.93 ATOM 3346 CB ASP B 42 52.569 12.119 56.901 1.00 45.93 ATOM 3348 ODI ASP B 42 54.244 13.799 56.686 1.00 47.09 ATOM 3350 C ASP B 42 54.797 11.736 56.162 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 47.06 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 47.06 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 47.06 ATOM 3351 O ASP B 42 50.467 11.051 59.069 1.00 47.06 ATOM 3351 O ASP B 42 50.467 11.051 59.069 1.00 47.06 ATOM 3351 O ASP B 42 50.467 11.051 59.069 1.00 47.06 ATOM 3355 C GLU B 43 49.707 12.944 58.121 1.00 50.50 ATOM 3355 C GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3355 C GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3355 C GLU B 43 45.165 14.518 57.065 1.00 64.03 ATOM 3355 C GLU B 43 45.165 14.518 57.065 1.00 64.03 ATOM 3355 C GLU B 43 45.165 14.518 57.065 1.00 64.03 ATOM 3355 C GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3355 C GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3356 CD LYS B 44 49.407 79.75 12.96 ATOM 3366 CD LYS B 44 49.407 79.75 12.96 ATOM 3366 CD LYS B 44 49.407 79.75 12.96 ATOM 3366 CD LYS B 44 49.407 79.75 12.95 55.10 1.00 66.95 ATOM 3360 CD LYS B 44 49.407 79.75 12.70 57.836 1.00 49.96 ATOM 3360 CD LYS B 44 49.407 79.75 12.70 58.390 1.00 49.96 ATOM 3360 CD LYS B 44 50.970 7.532 55.10 1.00 66.95 ATOM 3360 CD LYS B 44 50.970 7.532 55.10 1.00 66.95 ATOM 3370 CD LYS B 44 50.970 7.790 58.811 1.00 33.75 ATOM 3370 CD LYS B 44 50.970 7.790 58.811 1.00 33.75 ATOM 3371 CD GLU B 45 50.990 8.500 0.00 34.76 ATOM 3370 CD LYS B 44 50.970 7.790 58.821 1.0		3335								
ATOM 3338 CB ILE B 41 53.445 11.991 62.536 1.00 35.21 ATOM 3339 CC2 ILE B 41 52.793 13.271 63.047 1.00 31.89 ATOM 3340 CG1 ILE B 41 52.793 13.271 63.047 1.00 32.68 ATOM 3341 CD1 ILE B 41 51.470 10.550 63.285 1.00 36.46 ATOM 3342 C ILE B 41 53.492 12.937 60.229 1.00 37.52 ATOM 3343 O ILE B 41 53.492 12.937 60.229 1.00 37.52 ATOM 3344 N ASP B 42 52.943 12.114 59.345 1.00 40.24 ATOM 3345 CA ASP B 42 52.943 12.114 59.345 1.00 49.55 ATOM 3346 CB ASP B 42 52.943 12.114 59.345 1.00 45.93 ATOM 3346 CB ASP B 42 52.569 12.119 56.901 1.00 45.93 ATOM 3348 OD1 ASP B 42 53.972 12.584 56.564 1.00 47.09 ATOM 3349 OD2 ASP B 42 54.244 13.799 56.686 1.00 46.60 ATOM 3350 C ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3352 N GLU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3352 N GLU B 43 49.707 12.944 58.121 1.00 48.13 ATOM 3355 CG GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3356 CD GLU B 43 45.961 13.505 57.840 1.00 59.50 ATOM 3357 OEI GLU B 43 45.961 13.505 57.840 1.00 59.50 ATOM 3359 C GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3359 C GLU B 43 47.972 11.205 57.836 1.00 47.861 ATOM 3359 C GLU B 43 47.972 11.205 57.836 1.00 47.861 ATOM 3360 O GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3360 O GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3360 O GLU B 43 47.972 11.205 57.836 1.00 47.81 ATOM 3360 CD LYS B 44 48.684 9.409 56.251 1.00 66.95 ATOM 3360 CD LYS B 44 48.684 9.409 55.510 1.00 66.95 ATOM 3360 CD LYS B 44 48.684 9.409 56.251 1.00 49.96 ATOM 3360 CD LYS B 44 48.684 9.409 55.510 1.00 66.95 ATOM 3360 CD LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3360 CD LYS B 44 49.639 7.903 54.470 1.00 52.18 ATOM 3370 N GLU B 45 50.690 7.799 58.821 1.00 33.73 ATOM 3370 N GLU B 45 50.960 7.799 58.821 1.00 33.73 ATOM 3371 CD GLU B 45 50.960 7.799 58.821 1.00 33.73 ATOM 3372 C GLU B 45 50.690 7.799 58.821 1.00 33.73 ATOM 3373 C GLU B 45 50.690 7.799 58.821 1.00 33.73 ATOM 3373 C GLU B 45 50.960 7.799 58.821 1.00 33.73 ATOM 3373 C GLU B										1.00 35.42
ATOM 3340 CG1 ILE B 41 52.793 13.271 1.00 32.68 ATOM 3341 CD1 ILE B 41 51.470 10.550 63.285 1.00 36.46 ATOM 3342 C ILE B 41 51.470 10.550 63.285 1.00 37.52 ATOM 3343 O ILE B 41 53.352 14.157 60.183 1.00 40.24 ATOM 3344 N ASP B 42 52.094 12.615 58.273 1.00 45.30 ATOM 3345 CA ASP B 42 52.094 12.615 58.273 1.00 45.30 ATOM 3346 CB ASP B 42 52.569 12.119 56.901 1.00 45.30 ATOM 3347 CG ASP B 42 52.569 12.119 56.901 1.00 45.30 ATOM 3348 ODI ASP B 42 52.569 12.119 56.696 1.00 47.09 ATOM 3348 ODI ASP B 42 54.797 11.736 56.156 1.00 45.16 ATOM 3330 C ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3331 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3352 N GLU B 43 48.303 12.618 58.312 1.00 50.50 ATOM 3355 CG GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3355 CG GLU B 43 47.441 13.637 57.751 1.00 53.54 ATOM 3355 CG GLU B 43 45.961 13.505 57.840 1.00 66.95 ATOM 3356 CD GLU B 43 45.961 13.505 57.840 1.00 66.95 ATOM 3357 OEI GLU B 43 47.992 10.547 58.390 1.00 47.81 ATOM 3360 C GLU B 43 47.992 10.547 58.390 1.00 49.67 ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 46.81 ATOM 3362 CA LYS B 44 48.690 10.745 56.817 1.00 46.67 ATOM 3365 CD GLU B 43 47.992 10.547 58.390 1.00 49.67 ATOM 3366 CE LYS B 44 48.690 10.746 56.817 1.00 46.280 ATOM 3367 NC LYS B 44 48.690 10.746 56.817 1.00 46.280 ATOM 3367 NC LYS B 44 48.690 10.746 56.817 1.00 46.280 ATOM 3367 NC LYS B 44 50.970 7.532 55.127 1.00 66.95 ATOM 3367 NC LYS B 44 50.970 7.532 55.127 1.00 46.34 ATOM 3367 NC LYS B 44 50.970 7.532 55.127 1.00 48.28 ATOM 3367 NC LYS B 44 50.970 7.532 55.127 1.00 46.34 ATOM 3367 NC LYS B 44 50.970 7.532 55.127 1.00 48.28 ATOM 3368 C ELYS B 44 50.970 7.532 55.127 1.00 46.63 ATOM 3370 N GLU B 45 50.980 8.517 58.310 1.00 37.58 ATOM 3371 CA GLU B 45 50.990 9.9176 1.00 38.41 ATOM 3373 CG GLU B 45 50.990 9.9176 1.00 34.34 ATOM 3376 NG LEU B 45 50.990 9.9176 1.00 34.34 ATOM 3377 CA GLU B 45 50.990 9.9176 1.00 34.34 ATOM 3378 O ELEU B 46 47.608 8.438 61.545 1.00 33.73 ATOM 3378 O ELEU B 46 47.608 8.438 61.5		3338					53.445	11.991	62.536	1.00 35.21
ATOM 3341 CDI LLE B 41 51.470 10.550 63.285 1.00 36.46 ATOM 3342 C LLE B 41 53.492 12.937 60.229 1.00 37.52 ATOM 3343 O LLE B 41 53.352 14.157 60.183 1.00 40.24 ATOM 3344 N ASP B 42 52.943 12.114 59.345 1.00 45.30 ATOM 3346 CD ASP B 42 52.943 12.114 59.345 1.00 45.30 ATOM 3346 CD ASP B 42 52.969 12.119 56.901 1.00 45.93 ATOM 3346 CD ASP B 42 53.972 12.584 56.564 1.00 47.99 ATOM 3348 OD1 ASP B 42 54.797 11.736 56.162 1.00 45.16 ATOM 3350 C ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.467 11.051 59.069 1.00 47.06 ATOM 3351 O ASP B 42 50.467 11.051 59.069 1.00 47.06 ATOM 3355 C G GLU B 43 49.707 12.944 58.121 1.00 50.50 ATOM 3355 CD GLU B 43 47.441 13.637 57.571 1.00 53.54 ATOM 3355 CD GLU B 43 47.441 13.637 57.571 1.00 59.52 ATOM 3355 CD GLU B 43 47.441 13.637 57.571 1.00 59.52 ATOM 3356 CD GLU B 43 47.972 11.205 57.840 1.00 49.67 ATOM 3356 CD GLU B 43 47.972 11.205 57.840 1.00 49.67 ATOM 3360 O GLU B 43 47.972 11.205 57.215 1.00 66.54 ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 49.67 ATOM 3361 N LYS B 44 48.690 10.744 56.817 1.00 49.67 ATOM 3366 C LYS B 44 49.207 9.311 54.894 1.00 49.67 ATOM 3366 C LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3366 C LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3367 CD GLU B 45 50.268 7.486 59.014 1.00 37.58 ATOM 3370 N GLU B 45 50.268 7.486 59.014 1.00 37.58 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.44 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 37.58 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 37.58 ATOM 3378 O GLU B 45 50.268 7.486 59.014 1.00 34.34 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 34.34 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 34.34 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 34.34 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 34.34 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 34.34 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 34.34 ATOM 3377 C GLU B 45 50.268 7.486 59.014 1.00 34.38 ATOM 3377 C GLU B 45 50.268 7.4		3339							63.047	
ATOM 3342 C ILE B 41 53.492 12.937 60.229 1.00 37.52 ATOM 3343 O ILE B 41 53.352 14.157 60.183 1.00 40.24 ATOM 3344 N ASP B 42 52.994 12.114 59.345 1.00 39.55 ATOM 3346 CB ASP B 42 52.994 12.115 58.273 1.00 45.30 ATOM 3346 CB ASP B 42 52.569 12.119 56.668 1.00 47.06 ATOM 3347 CG ASP B 42 53.972 12.584 56.564 1.00 47.05 ATOM 3349 ODZ ASP B 42 54.244 13.799 56.686 1.00 46.60 ATOM 3350 C ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 45.16 ATOM 3351 O ASP B 42 50.677 12.134 58.524 1.00 47.06 ATOM 3355 CG GLU B 43 48.303 12.618 58.312 1.00 50.50 ATOM 3355 CG GLU B 43 45.961 13.505 57.840 1.00 53.54 ATOM 3355 CD GLU B 43 45.961 13.505 57.840 1.00 53.54 ATOM 3355 CD GLU B 43 45.961 13.505 57.215 1.00 66.95 ATOM 3356 CD GLU B 43 45.961 13.505 57.215 1.00 66.95 ATOM 3360 CD GLU B 43 47.992 10.547 58.390 1.00 47.81 ATOM 3360 CD GLU B 43 47.992 10.547 58.390 1.00 47.81 ATOM 3361 N LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3366 CE LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3366 CE LYS B 44 49.207 9.311 54.894 1.00 42.96 ATOM 3367 NZ LYS B 44 49.207 9.331 54.894 1.00 42.96 ATOM 3367 NZ LYS B 44 49.207 9.331 54.894 1.00 42.96 ATOM 3367 NZ LYS B 44 49.207 9.331 54.894 1.00 42.96 ATOM 3367 NZ LYS B 44 49.207 9.331 54.894 1.00 42.96 ATOM 3367 NZ LYS B 44 49.207 9.331 54.894 1.00 42.96 ATOM 3367 NZ LYS B 44 49.207 9.331 54.894 1.00 42.96 ATOM 3367 NZ LYS B 44 49.207 9.331 54.894 1.00 42.96 ATOM 3370 N GLL B 45 50.268 7.486 59.014 1.00 65.34 ATOM 3370 N GLL B 45 50.268 7.486 59.014 1.00 62.80 ATOM 3371 CA GLU B 45 50.968 7.486 59.014 1.00 33.75 ATOM 3373 CG GLU B 45 50.268 7.486 59.014 1.00 33.75 ATOM 3370 N GLL B 45 50.268 7.486 59.014 1.00 33.75 ATOM 3370 N GLU B 45 50.969 8.50 1.00 33.75 ATOM 3370 N GLU B 45 50.969 8.50 1.00 33.75 ATOM 3370 N GLU B 45 50.969 7.999 59.176 1.00 33.75 ATOM 3370 N GLU B 45 50.969 7.999 59.176 1.00 33.75 ATOM 3370 N GLU B 45 50.969 7.999 59.176 1.00 33.75 ATOM 3370 N GLU B 45 50.969 7.999 59.176 1.00										1.00 36.46
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ATOM 3356 CD GLU B 43			CG	GLU I	в 43					
ATOM 3357 OE2 GLU B 43										1.00 68.54
ATOM 3359 C GLU B 43 47.972 11.205 57.836 1.00 47.672 ATOM 3361 N LYS B 44 48.690 10.547 56.817 1.00 46.21 ATOM 3362 CA LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3363 CB LYS B 44 49.207 9.311 54.894 1.00 49.96 ATOM 3365 CD LYS B 44 50.970 7.532 55.127 1.00 61.03 ATOM 3366 CE LYS B 44 50.970 7.532 55.127 1.00 61.03 ATOM 3366 CE LYS B 44 50.970 7.532 55.127 1.00 62.80 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3368 C LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3370 N GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3372 CB GLU B 45 50.268 7.486 59.014 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3375 OEI GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3376 OE2 GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3376 OE2 GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3377 C GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3378 OEI GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3378 OEI GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3378 OEI GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3378 OEI GLU B 45 53.997 9.699 59.176 1.00 33.37 ATOM 3379 N LEU B 46 47.608 8.438 61.545 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 62.201 1.00 32.74 ATOM 3381 CG LEU B 46 47.608 8.438 62.201 1.00 32.74 ATOM 3383 CDI LEU B 46 47.608 8.438 62.201 1.00 32.74 ATOM 3383 CDI LEU B 46 47.608 8.438 62.201 1.00 32.74 ATOM 3386 C LEU B 46 46.622 10.163 63.250 1.00 34.78 ATOM 3386 C LEU B 46 46.622 10.163 63.250 1.00 31.78 ATOM 3386 C LEU B 46 46.622 10.163 63.250 1.00 31.78 ATOM 3387 N LEU B 46 46.622 10.163 63.250 1.00 31.78 ATOM 3388 CDI LEU B 46 46.622 10.163 63.250 1.00 31.78 ATOM 3388 CDI LEU B 46 46.622 10.163 63.250 1.00 31.78 ATOM 3388 CDI LEU B 46 46.622 10.163 63.250 1.00 31.78 ATOM 3388 CDI LEU B 46 46.622 10.163 63.250 1.00 31.78 ATOM 3388 CDI LEU B 46 46.622 10.163 63.250 1.00 31.78 ATOM 3388 CDI LEU B 46 46.622 10.163 63.250 1.00 31.78 ATOM 3388 CDI LEU B 46 46.622 10.163 63.250 1.00 31.78 ATOM 3388 CDI LEU B 46 46.622 10.163 63.250 1.00 31.78 ATOM 3388					_	,	45.765	15.298		
ATOM 3360 O GLU B 45 ATOM 3361 N LYS B 44 ATOM 3362 CA LYS B 44 ATOM 3362 CA LYS B 44 ATOM 3363 CB LYS B 44 ATOM 3364 CG LYS B 44 ATOM 3365 CD LYS B 44 ATOM 3366 CE LYS B 44 ATOM 3366 CE LYS B 44 ATOM 3366 CE LYS B 44 ATOM 3367 NZ LYS B 44 ATOM 3368 C LYS B 44 ATOM 3369 O LYS B 44 ATOM 3370 N GLU B 45 ATOM 3371 CA GLU B 45 ATOM 3372 CB GLU B 45 ATOM 3373 CG GLU B 45 ATOM 3374 CD GLU B 45 ATOM 3375 OE1 GLU B 45 ATOM 3375 OE1 GLU B 45 ATOM 3376 OE2 GLU B 45 ATOM 3377 C GLU B 45 ATOM 3378 O GLU B 45 ATOM 3379 N LEU B 46 ATOM 3378 O GLU B 45 ATOM 3379 N LEU B 46 ATOM 3378 OF LEU B 46 ATOM 3379 N LEU B 46 ATOM 3378 OF LEU B 46 ATOM 3378 OF LEU B 46 ATOM 3388 CA LEU B 46 ATOM 3388 CA LEU B 46 ATOM 3387 N LEU B 46 ATOM 3388 CA LEU B 46 ATOM 3388 CA LEU B 46 ATOM 3387 N LEU B 46 ATOM 3388 CA LEU B 46 ATOM 3388 CA LEU B 46 ATOM 3387 N LEU B 46 ATOM 3388 CA LEU B 46 ATOM 3387 N LEU B 46 ATOM 3388 CA		3359	С				-	11.205		
ATOM 3362 CA LYS B 44								10.744		1.00 46.21
ATOM 3364 CG LYS B 44							48.484	9.409		1.00 48.28
ATOM 3364 CG LYS B 44		3363		LYS	B 44		49.207			1.00 49.98
ATOM 3366 CE LYS B 44 51.399 6.095 54.844 1.00 62.80 ATOM 3367 NZ LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3368 C LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3369 O LYS B 44 48.418 7.127 57.009 1.00 41.30 ATOM 3370 N GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3372 CB GLU B 45 51.684 7.812 59.468 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3376 C GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3378 O GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 32.24 ATOM 3383 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 CD LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3387 N ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3387 N ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.564 4.802 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.564 4.802 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.564 4.802 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.564 4.										1.00 61.03
ATOM 3367 NZ LYS B 44 50.511 5.098 55.510 1.00 45.92 ATOM 3368 C LYS B 44 48.899 8.249 57.161 1.00 45.92 ATOM 3369 O LYS B 44 48.418 7.127 57.009 1.00 41.30 ATOM 3370 N GLU B 45 49.797 8.517 58.100 1.00 42.18 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3372 CB GLU B 45 51.684 7.812 59.468 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3376 OE2 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3377 C GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3382 CG LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3385 C LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3386 O LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3388 CD1 LEU B 46 46.642 10.163 63.250 1.00 31							51.399			
ATOM 3368 C LYS B 44 48.418 7.127 57.009 1.00 41.30 ATOM 3370 N GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3372 CB GLU B 45 51.684 7.812 59.468 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3382 CG LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3383 CD1 LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3385 C LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3386 CD2 LEU B 46 46.642 10.163 63.250 1.00 32.24 ATOM 3386 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3387 N ILE B 47 44.479 6.338 62.258 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.258 1.00 28.62		3367			_					
ATOM 3370 N GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.41 ATOM 3372 CB GLU B 45 51.684 7.812 59.468 1.00 33.73 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3376 OE2 GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.66 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 30.66 ATOM 3382 CG LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3383 CD1 LEU B 46 47.608 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3385 C LEU B 46 46.642 10.163 63.250 1.00 32.24 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.4564 4.802 62.258 1.00 28.62										1.00 41.30
ATOM 3371 CA GLU B 45 50.268 7.486 59.014 1.00 38.44 51.00 33.73 ATOM 3372 CB GLU B 45 51.684 7.812 59.468 1.00 33.73 ATOM 3373 CG GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3382 CG LEU B 46 47.608 8.438 61.545 1.00 32.74 ATOM 3383 CD1 LEU B 46 47.89 9.379 64.425 1.00 32.24 ATOM 3383 CD1 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3387 N ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.564 4.802 62.258 1.00 28.62			-				49.797			1.00 42.18
ATOM 3372 CB GLU B 45 52.694 7.887 58.351 1.00 37.58 ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3379 N LEU B 46 49.461 6.462 61.032 1.00 34.98 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.86 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3382 CG LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.394 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.6212 7.861 61.318 1.00 31.36 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.258 1.00 28.62		3371	CA							1.00 33.73
ATOM 3374 CD GLU B 45 53.998 8.504 58.813 1.00 34.34 ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.04 ATOM 3376 OE2 GLU B 45 55.020 7.799 58.821 1.00 33.37 ATOM 3377 C GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3382 CG LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.4564 4.802 62.258 1.00 28.62										1.00 37.58
ATOM 3375 OE1 GLU B 45 53.997 9.699 59.176 1.00 38.337 ATOM 3376 OE2 GLU B 45 49.368 7.403 60.238 1.00 36.86 ATOM 3377 C GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3382 CG LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.78 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.564 4.802 62.258 1.00 28.62		-					53.998	8.504		
ATOM 3376 OE2 GLU B 45 ATOM 3377 C GLU B 45 ATOM 3378 O GLU B 45 ATOM 3378 O GLU B 45 ATOM 3379 N LEU B 46 ATOM 3380 CA LEU B 46 ATOM 3381 CE LEU B 46 ATOM 3382 CG LEU B 46 ATOM 3383 CD1 LEU B 46 ATOM 3383 CD1 LEU B 46 ATOM 3384 CD2 LEU B 46 ATOM 3385 C LEU B 46 ATOM 3386 C LEU B 46 ATOM 3387 N ILE B 47 ATOM 3388 CA LEU B 46 ATOM 3388 CA LEU B 46 ATOM 3388 C LEU B 47 ATOM 3388 C LEU B		3375		GLU	B 45					
ATOM 3378 O GLU B 45 49.461 6.462 61.032 1.00 34.98 ATOM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.86 ATOM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATOM 3381 CE LEU B 46 47.501 9.889 62.019 1.00 32.74 ATOM 3382 CG LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3386 O LEU B 46 46.512 7.861 61.318 1.00 31.36 ATOM 3387 N ILE B 47 45.501 6.957 62.203 1.00 31.78 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36					-					1.00 36.86
ATCM 3379 N LEU B 46 48.489 8.386 60.386 1.00 30.65 ATCM 3380 CA LEU B 46 47.608 8.438 61.545 1.00 30.65 ATCM 3381 CE LEU B 46 47.501 9.889 62.019 1.00 32.74 ATCM 3383 CD1 LEU B 46 46.642 10.163 63.250 1.00 34.76 ATCM 3384 CD2 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATCM 3385 C LEU B 46 46.639 11.656 63.548 1.00 33.94 ATCM 3385 C LEU B 46 46.639 11.656 63.548 1.00 31.36 ATCM 3386 O LEU B 46 46.212 7.861 61.318 1.00 31.36 ATCM 3387 N ILE B 47 45.530 8.218 60.363 1.00 31.78 ATCM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATCM 3388 CA ILE B 47 44.564 4.802 62.258 1.00 28.62							49.461	-		
ATOM 3380 CA LEU B 46 ATOM 3381 CE LEU B 46 ATOM 3382 CG LEU B 46 ATOM 3383 CD1 LEU B 46 ATOM 3383 CD1 LEU B 46 ATOM 3384 CD2 LEU B 46 ATOM 3385 C LEU B 46 ATOM 3385 C LEU B 46 ATOM 3386 C LEU B 46 ATOM 3387 N ILE B 47 ATOM 3388 CA LLE B 47				LEU	B 46					
ATOM 3382 CG LEU B 46 46.642 10.163 63.250 1.00 34.76 ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3386 O LEU B 46 45.530 8.218 60.363 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36					_					1.00 32.74
ATOM 3383 CD1 LEU B 46 47.189 9.379 64.425 1.00 32.24 ATOM 3384 CD2 LEU B 46 46.639 11.656 63.548 1.00 33.94 ATOM 3385 C LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3386 O LEU B 46 45.530 8.218 60.363 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36							46.642	10.163	63.250	1.00 34.76
ATOM 3384 CD2 LEU B 46 46.639 11.656 61.318 1.00 31.36 ATOM 3385 C LEU B 46 46.212 7.861 61.318 1.00 31.36 ATOM 3386 O LEU B 46 45.530 8.218 60.363 1.00 31.78 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.18 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36			CD:	1 LEU	B 46					
ATOM 3386 C LEU B 46 45.530 8.218 60.363 1.00 31.78 ATOM 3386 O LEU B 46 45.801 6.957 62.203 1.00 31.18 ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 29.36 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36	ATOM	3384			· · · · · ·				61.318	1.00 31.36
ATOM 3387 N ILE B 47 45.801 6.957 62.203 1.00 31.10 ATOM 3388 CA ILE B 47 44.479 6.338 62.139 1.00 29.36 ATOM 3388 CA ILE B 47 44.564 4.802 62.258 1.00 28.62					_		45.530	8.218	60.363	1.00 31.78
ATCM 3388 CA ILE B 47 44.479 6.336 62.258 1.00 28.62				ILE	B 47			_		
ATOM 3389 CB ILE B 4/ 44-00-	ATCM	3388	CA							
	ATOM	3389	CS.	The	ווי ע			3.00		

								en 407	1.00 28.80
ATOM	3390	CG2	ILE B	47		43.161	4.205	62.407	
ATOM	3391	CG1	ILE B	47		45.266	4.230	61.028	1.00 29.42
	3392	CD1	ILE B	47		45.419	2.722	61.054	1.00 31.12
ATOM	_			47		43.659	6.875	63.303	1.00 32.22
MOTA	3393	C	ILE B				6.755	64.461	1.00 31.17
MOTA	3394	0	ILE B	47		44.063			1.00 28.39
MOTA	3395	11	LYS B	48		42.514	7.475	62.999	
MOTA	3396	CA	LYS B	48		41.662	8.037	64.340	1.00 32.37
	3397	CB	LYS B	48		40.517	8.840	63.414	1.00 36.32
MOTA				48		39.607	9.514	64.430	1.00 43.08
MOTA	3398	CG	LYS B			38.535	10.361	63.747	1.00 44.38
ATOM	3399	CD	LYS B	48				64.768	1.00 45.91
MOTA	3400	CE	LYS B	48	•	37.657	11.074	64.700	
ATOM	3401	NZ	LYS B	48		38.451	11.991	65.643	
MOTA	3402	С	LYS B	48		41.095	6.943	64.937	1.00 31.08
	3403	Ö	LYS B	48		40.524	5.962	64.457	1.00 26.24
ATOM			SER B	49		41.260	7.121	66.244	1.00 27.89
ATOM	3404	N		49		40.770	6.168	67.232	1.00 25.17
MOTA	3405	CA	SER B			41.146	6.639	68.642	1.00 24.41
ATOM	3406	CB	SER B	49				68.777	1.00 31.79
ATOM	3407	og	SER B	49		42.539	6.858		1.00 29.07
ATOM	3408	С	SER B	49		39.248	6.054	67.160	
ATOM	3409	0	SER B	49		38.565	7.034	66.879	1.00 28.47
	3410	N	ARG B	50		38.723	4.859	67.409	1.00 26.13
MOTA		CA	ARG B	50		37.278	4.658	67.430	1.00 24.24
ATOM	3411			50		36.810	3.700	66.323	1.00 25.03
MOTA	3412	CB	ARG B				2.233	66.507	1.00 26.54
MOTA	3413	CG	ARG B	50		37.231		65.452	1.00 26.21
MOTA	3414	ÇD	ARG B	50		36570	1.340		1.00 25.13
MOTA	3415	NE	ARG B	50		37.006	-0.058	65.504	
ATOM	3416	CZ	ARG B	50		36.700	-0.924	66.468	1.00 26.09
ATOM	3417	NH1		50		35.941	-0.558	67.497	1.00 23.42
	3418	NH2		50		37.157	-2.168	66.402	1.00 23.91
ATOM	_		ARG B	50		36.937	4.037	68.775	1.00 23.83
MOTA	3419	С				37.782	3.392	69.403	1.00 21.60
MOTA	3420	0	ARG B	50		35.700	4.223	69.243	1.00 22.99
MOTA	3421	N	PRO B	51					1.00 25.09
MOTA	3422	CD	PRO B	51		34.554	4.962.		1.00 25.48
ATOM	3423	CA	PRO B	51		35.338	3.628	70.530	
MOTA	3424	CB.	PRO B	51		33.949	4.217	70.802	1.00 26.32
MOTA	3425	CG	PRO B	51		33.936	5.503	69.953	1.00 28.65
	3426	c	PRO B	51		35.264	2.118	70.325	1.00 26.73
MOTA			PRO B	51		35.142	1.646	69.194	1.00 18.87
MOTA	3427	0		52		35.355	1.359	71.408	1.00 23.64
MOTA	3428	N	ALA B				-0.083	71.291	1.00 23.27
MOTA	3429	CA	ALA B	52		35.237		72.521	1.00 26.31
ATOM	3430	CB	ALA B	52		35.811	-0.757	71.223	1.00 25.25
ATOM	3431	С	ALA B	52		33.733	-0.324		1.00 22.78
ATOM	3432	0	ALA B	52		32.950	0.515	71.677	1.00 22.78
ATOM	3433	N	THR B	53	•	33.321	-1.447	70.651	1.00 22.77
	3434	CA	THR B	53		31.900	-1.760	70.596	1.00 26.90
ATOM			THR B			31.567	-2.732	69.456	1.00 30.00
ATOM	3435	CB				32.305	-3.950	69.642	1.00 25.59
MOTA	3436		L THR E	53			-2.117	68.103	1.00 23.33
ATOM	3437	CG2		53		31.917		71.916	1.00 30.41
MOTA	3438	Ç	THR B	53		31.579	-2.445		1.00 26.13
MOTA	3439	0	THR B	53		32.484	-2.917	72.609	
ATOM	3440	N	LYS B	54		30.300	-2.504	72.268	1.00 29.12
	3441	CA	LYS B	54		29.909	-3.140	73.514	1.00 30.24
MOTA		CB	LYS B	54		28.396	-3.027	73.720	1.00 32.78
MOTA	3442			54		27.947	-3.351	75.131	1.00 34.85
ATOM	3443	CG	LYS B				-3.204	75.268	1.00 41.13
MOTA	3444	CD	LYS B			26.445		76.709	1.00 43.39
ATOM	3445	CE	LYS B			26.008	-3.366		1.00 47.39
ATOM	3446	NZ	LYS B	54		26.464	-2.257	77.582	1.00 47.33
	3447	C	LYS 3			30.329	-4.603	73.442	1.00 29.10
ATOM		Ö	LYS B			30.779	-5.183	74.430	1.00 26.71
ATOM	3448		GLU 3			30.196	-5.187	72.256	
atom	3449	N				30.577	-6.577	72.032	1.00 28.08
MOTA	3450	CA	GLU 3				-6.965	70.579	
ATCM	3451	CB				30.288			
ATOM	3452	CG				30.671	-8.400		
ATOM	3453		GLU E			30.453	-8.737		1.00 00.43
	3454		1 GLU E			30.638	-9.913		1.00 41.24
ATOM			2 GLU E			30.101	-7.833	67.984	1.00 40.02
ATOM	3455		_ 520 -						

					32.066	-6.808	72.345	1.00 25.82
ATOM	3456	C (GLU B	55				1.00 23.83
ATOM	3457	0 (GLU B	55	32.429	-7.765	73.033	1.00 23.03
		-	_		32.931	-5.938	71.835	1.00 25.04
ATOM	3458	N (GLU B	56			72.093	1.00 25.30
MOTA	3459	CA C	GLU B	56	34.365	-6.079		
	-		GLU B	56	35.141	-5.003	71.334	1.00 24.31
ATOM	3460						69.836	1.00 32.15
ATOM-	3461	CG (GLU B	56	34.866	-5.039		1.00 31.43
	3462		GLU B	56	35.512	-3.903	69.073	
MOTA				56	35.486	-2.759	69.568	1.00 28.54
ATOM	3463		GLU B				67.959	1.00 28.89
ATOM	3464	OE2	GLU B	56	36.012	-4.147		
			GLU B	56	34.653	-5.988	73.595	1.00 28.88
MOTA	3465				35.450	-6.766	74.137	1.00 25.07
ATOM	3466	0	GLU B	56			74.272	1.00 24.52
ATOM	3467	N	LEU B	57	33.996	-5.050		
			LEU B	57	34.203	-4.891	75.702-	1.00 27.34
MOTA	3468				33.416	-3.694	76.231	1.00 22.79
MOTA	3469	CB	LEU B	57			75.722	1.00 23.57
MOTA	3470	CG	LEU B	57	33.859	-2.320		
			LEU B	57	33.008	-1.247	76.366	1.00 22.27
ATOM	3471				35.342	-2.089	76.061	1.00 17.24
ATOM	3472		LEU B	57			76.452	1.00 26.92
MOTA	3473	С	LEU B	57	33.785	-6.144		
			LEU B	57	34.458	-6.568	77.396	1.00 24.06
ATOM	3474				32.670	-6.732	76.029	1.00 23.35
MOTA	3475	N	LEU B	58			76.674	1.00 25.60
MOTA	3476	CA	LEU B	58	32.154	-7.931		1 00 20 50
	3477	CB	LEU B	58	30.718	-8.207	76.221	1.00 28.50
MOTA					29.734	-7.110	76.649	1.00 30.91
ATOM	3478	ÇG	LEU B	58			76.212	1.00 28.93
ATOM	3479	CD1	LEU B	58	28.323	-7.468	70.212	
			LEU B	58	29.794	-6.945	78.157	1.00 33.44
MOTA	3480				33.027	-9.153	76.446	1.00 24.59
MOTA	3481	С	LEU B	58			76.991	1.00 19.76
ATOM	3482	0	LEU B	58	32.760	-10.216		
		N	LEU B	59	34.065	-9.006	75.630	1.00 23.99
ATOM	3483				34.988	-10.108	75.411	1.00 25.11
ATOM	3484	CA	LEU B	59			74.332	1.00 21.64
ATOM	3485	CB	LEU B	59	36.018	-9.757		
		ĊĠ	LEU B	59	35.483	-9.652	72.905	1.00 24.24
ATOM	3486				36.585	-9.177	71.975	1.00 24.25
ATOM	3487	CD1	LEU B	59			72.468	1.00 19.91
ATOM	3488	CD2	LEU B	59	34.957	-11.014		
	3489	С	LEU B	59	35.699	-10.371	76.733	
ATOM				59	36.150	-11.489	76.992	1.00 19.39
MOTA	3490	0	LEU B		•	-9.344	77.577	1.00 21.80
ATOM	3491	N	PHE B	60	35.793			1.00 23.08
	3492	CA	PHE B	60	36.462	-9.510	78.876	
ATOM			PHE B	60	37.809	-8.770	78.908	1.00 18.22
ATOM	3493	CB			38.544	-8.906	80.230	1.00 21.72
MOTA	3494	CG	PHE B	60			80.680	1.00 19.23
ATOM	3495	CD1	PHE B	60				1.00 17.75
	3496	CD2	_	60	38.757	-7.791	81.048	1.00 17.75
ATOM			_	60	39.602	-10.301	81.927	1.00 18.80
MOTA	3497	CEl					82.297	1.00 19.23
ATOM	3498	CE2	PHE B	60	39.384			
		CZ	PHE B	60	39.807		82.737	
ATOM				60	35.648		80.083	1.00 21.58
ATOM		С	PHE B				81.040	1.00 22.21
ATOM		0	PHE B		35.508			1.00 20.65
		N	HIS B		35.128	-7.847	80.055	1.00 20.00
ATOM			HIS B		34.362	-7.336	81.184	1.00 23.32
ATOM		CA			34.422		81.229	1.00 27.60
ATOM	3504	CB	HIS B					
ATOM			HIS B	61	35.800	-5.259		
		CD2	HIS B		36.466	-4.940	82.575	1.00 26.86
ATOM			. n13 b	61	36.669			1.00 34.35
ATOM	3507	ND1	HIS B	61				
			HIS B	61	37.810			
ATOM			HIS B		37.713	-4.499	82.204	1.00 36.27
ATOM	3509							1.00 28.04
ATOM		C	HIS B		32.902			
			HIS B	61	32.349			
ATOM			THR B		32.276	-7.691	82.367	
ATOM					30.882			1.00 25.35
ATOM	3513	CA	THR B					
			THR E	62	30.578			
ATOM	·	_			30.783	3 -7.462	84.843	1.00 28.62
ATOM	3515				31.48	2 -9.701		1.00 21.32
ATON		cG2						
			THR E	62	29.93			1.00 24.00
ATON			THR E		30.28	7 -5.773		
ATON	4 3518				28.71			1.00 28.01
ATO) N	GLU I					
			GLU I	3 63	27.68	1 -6.349		
ATC					26.37	4 -7.094	4 81.114	1.00 33.97
ATC:	y 352	ן כם	GTO I	, 02				

			GLU B	63		25.213	-6.210	80.667	1.00 41.12
MOTA	3522		GLU B	63		25.189	-5.987	79.168	1.00 44.47
MOTA	3523			63		24.361	-5.177	78.689	1.00 42.64
MOTA	3524		GLU B	63		25.992	-6.640	78.465	1.00 45.96
MOTA	3525		GLU B	63		27.436	-5.326	82.498	1.00 27.29
MOTA	3526		GLU B		,	27.381	-4.118		1.00 25.13
MOTA	3527		GLU B	63		27.301	-5.834	83.713	1.00 24.38
MOTA	3528		ASP B	64		27.272	-5.023	84.897	1.00 29.27
ATOM	3529		ASP B	64			-5.944	86.112	1.00 36.30
MOTA	3530		ASP B	64		26.887	-6.935	86.198	1.00 50.77
MOTA	3531		ASP B	64		28.022 29.128	-6.540	86.630	1.00 52.71
MOTA	3532		ASP B	64			-8.106	85.802	1.00 51.98
MOTA	3533		ASP B	64		27.812 28.075	-3.967	85.143	1.00 26.49
MOTA	3534	С	ASP B	64		27.768	-2.806	85.422	1.00 18.33
ATOM	3535	0	ASP B	64		29.332	-4.373	85.052	1.00 22.75
MOTA	3536	N	TYR B	65		30.420	-3.435	85.251	1.00 19.32
MOTA	3537	CA	TYR B	65		31.751	-4.186	85.256	1.00 16.59
MOTA	3538	CB	TYR B	65		32.949	-3.285	85.366	1.00 19.19
MOTA	3539	CG	TYR B	65		33.033	-2.328	86.383	1.00 21.35
ATOM	3540	CD1		. 65		34.135	-1.489	86.489	1.00 18.32
MOTA	3541	CE1	TYR B	65		34.004	-3.382	84.456	1.00 18.65
MOTA	3542	CD2	TYR B	65		35.116	-2.544	84.554	1.00 21.01
MOTA	3543	CE2	TYR B	65		35.170	-1.601	85.573	1.00 20.61
MOTA	3544	CZ	TYR B	65		36.262	-0.775	85.682	1.00 17.77
ATOM	3545	он	TYR B	65		30.392	-2.373	84.146	1.00 22.01
MOTA	3546	C	TYR B	65		30.392	-1.167	84.421	1.00 18.20
MOTA	3547	0	TYR B	65		30.339	-2.815	82.894	1.00 19.49
MOTA	3548	N	ILE B	66		30.305	-1.870	81.786	1.00 19.68
MOTA	3549	CA	ILE E	66	•	30.208	-2.592	80.432	1.00 23.31
MOTA	3550	CB	ILE B	66 65		30.200	-1.571	79.303	1.00 21.30
MOTA	3551	CG2	ILE B	66		31.400	-3.541	80.260	1.00 27.67
MOTA	3552	CG1		66		32.758	-2.839	80.291	1.00 29.29
MOTA	3553	CD1		66 6 6		29.128	-0.909	81.940	1.00 26.99
MOTA	3554	C	ILE B	66		29.294	0.309	81.848	1.00 23.36
MOTA	3555	0	ILE B	67		27.939	-1.447	82.198	1.00 24.98
MOTA	3556	N	ASN B			26.782	-0.580	82.363	1.00 27.70
ATOM	3557	CA	ASN B			25.492	-1.389	82.580	1.00 25.58
MOTA	3558	CB	ASN B			25.081	-2.183	81.341	1.00 26.91
MOTA	3559	CG				25.199	-1.701	80.220	1.00 31.48
MOTA	3560	OD1 ND2				24.572	-3.387	81.545	1.00 23.80
MOTA	3561	C	ASN B			26.982	0.401	83.513	1.00 25.34
ATOM	3562	0	ASN B			26.524	1.539	83.448	1.00 22.53
ATOM	3563	N I	THR B			27.664	-0.031	84.568	1.00 23.65
ATOM	3564 3565	CA	THR B			27.903	0.863	85.696	1.00 25.25
ATOM	3566	CB	THR E			28.516	0.119	86.891	1.00 29.08
ATOM	3567	0G1				27.561	-0.826	87.396	1.00 25.94
MOTA	3568	CG2	_			28.894	1.100	88.002	1.00 22.90
ATOM	3569	C	THR E			28.818	2.009	85.287	1.00 25.91
MOTA	3570	Ö	THR E			28.576	3.156	85.661	1.00 28.47
ATOM	3571	N	LEU E			29.861	1.702	84.519	1.00 25.13
ATOM	3572	CA	LEU E			30.788	2.729		1.00 24.37
ATOM	3573	СВ	LEU E			31.915	2.122		1.00 21.32
MOTA	3574	CG	LEU E			32.960			1.00 22.33
MOTA	3575		L LEU E			34.006			1.00 22.57
ATOM	3576					33.643	2.000		1.00 23.20
MOTA	3577		LEU !			30.036			1.00 23.02
ATOM	3578		LEU I			30.190			1.00 18.98
MOTA	3579		MET			29.218			1.00 19.62
MOTA	3580		MET !			28.449	4.181		1.00 25.87
ATOM	• 3580		MET			27.660			
ATCM	3582		MET			28.531	2.511		
ATOM	3583			_		27.592	1.599		
ATOM	3584	_	MET			26.922			
ATOM	3585		MET			27.489	5.062		
ATOM	3586		MET			27.391	6.27		
ATOM ATOM	3587		GLU			26.786	4.45	83.194	1.00 20.21
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	35991234567899012345660078990123355999012345600078990123456000789901234560000789901233559990123456000000000000000000000000000000000000	CCCOCCONCCCCOCCONCCCCNCNNCONCCCCCCCCCC	ARG B B B B SER B SE	76 76 76 76 76 76 77 77 77 77 77 77 77 7		25.837 24.072 23.044 22.333 22.934 26.559 26.167 28.895 29.846 29.846 29.846 29.846 29.846 29.846 29.846 29.846 20.658 21.660 21.660 22.660 23.076 24.592 25.583 26.583 26.583 27.660 27.660 28.895 28.895 29.846 21.609 22.600 22.600 23.076 24.592 25.583 26.583 27.635 28.895 28.895 28.895 29.846 21.609 22.600 22.600 23.076 24.592 25.583 26.635 27.635 28.895 28.895 28.895 29.846 20.609 20.600 20.601 20.601 20.601 20.601 20.601 20.601 20.601 20.603 20.635	4.268 5.005 5.867 6.638 5.769 7.341 6.620 7.341 6.6620 7.889 7.899 7	84.889 85.899 85.899 85.899 85.899 85.899 85.899 85.899 85.899 85.899 85.899 85.899 85.899 85.899 85.899 85.899 85.899 86.3299 86.3299 87.3299 88.899 88.	1.00 33.5 1.00 29.5 1.00 40.5 1.00 37.5 1.00 34.5 1.00 39.5 1.00 39.5 1.00 35.6 1.00 36.6 1.00 33.6 1.00 33.6 1.00 33.6 1.00 34.6 1.00 34.6 1.00 34.6 1.00 34.6	60630719293407384324429732551134138427106096049319
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3644 3645 3646 3646 3646 3656 3656 3656	1 CB	VAL I 1 VAL I 2 VAL I VAL I PRO I PRO I PRO I	78 78 78 78 78 78 78 78 79 8 79 8 79 8		29.742 29.955 31.055	5.49 7.65 6.43 6.70 5.52 5.11 4.77 3.82	9 93.163 8 92.496 1 92.083 3 93.143 1 91.224 4 89.93 9 91.49	3 1.00 34. 6 1.00 34. 2 1.00 34. 3 1.00 28. 8 1.00 36. 0 1.00 37. 3 1.00 38. 1 1.00 38.	37 .93 .25 .73 .44 .33
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3640 3641 3642 3643 3644 3644 3644 3656 3656 3656	0 C 0 0 N CA CB	SER E VAL E VAL E 1 VAL E 2 VAL E VAL E PRO E PRO E PRO E	77 3 78 3 78 3 78 3 78 3 78 3 78 3 78 5 78 78 78 79 8 79 8 79 8 79 8 79		28.177 28.528 28.753 29.742 29.955 31.055 27.461 26.897 26.971 27.532 25.738 25.668	8.108 8.518 7.124 6.97 5.49 7.65 6.43 6.70 5.52 5.11 4.77	8 89.173 8 91.355 4 91.685 9 92.848 9 93.163 8 92.496 1 92.083 3 93.143 1 91.22 4 89.93 9 91.49	3 1.00 36. 1.00 33. 1.00 33. 1.00 36. 3 1.00 34. 6 1.00 34. 2 1.00 34. 3 1.00 28. 8 1.00 36. 0 1.00 37. 1.00 38. 1.00 38.	

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> mov	3654	С	PRO I	3	79		25.78	8	4.04		92.8		1.00			
ATOM ATOM	3655	-	PRO I		79		26.85		3.64		93.2		1.00			
ATOM	3656	-	LYS !		80		24.62	3	3.88		93.4		1.00			
	3657		LYS 1	В	80		24.48	2	3.20		94.7		1.00	39	. /3	
ATOM	3658		LYS	В	80		23.00		2.8		94.9		1.00			
MOTA	3659		LYS		80		22.67	9	2:13		96.2		1.00	44	.60	
MOTA	3660		LYS	В	80		21.19	8	1.7		96.2		1.00	48	.09	
MOTA	3661		LYS		80		20.80		1.0	_	97.5		1.00	50	.14	
MOTA	3662		LYS		80		20.93	2	1.8		98.7		1.00	23	.10	
MOTA	3663		LYS		80		25.31		1.9		94.8		1.00	40	.35	
MOTA	3664	0	LYS		80		25.18		1.0		94.0		1.00			
ATOM	3665	N	GLY		81		26.17		1.8		95.8		1.00		.69	
MOTA	3666	CA	GLY	В	81		26.99		0.7		96.1		1.00		. 63	
MOTA	3667	С	GLY	В	81		28.06		0.4		95.0 95.2		1.00		.92	
ATOM	3668	0	GLY		81		28.86		-0.5		93.9	22-	1.00			
ATOM	3669	N	ALA		82		28.10		1.1		92.9		1.00			
ATOM	3670	CA	ALA		82		29.08		0.9		91.7		1.00			
ATOM	3671	CB	ALA		82		28.75		1.2		93.4		1.00			
MOTA	3672	С	ALA		82		30.5		0.5		92.9		1.00			
MOTA	3673	0	ALA		82		31.46		2.1		94.3		1.00	36	5.52	2
MOTA	3674	N	ARG		83		31.9		2.5		94.8		1.00		3.75	
MOTA	3675	CA	ARG		83	•	31.8		3.6		95.8		1.00		0.24	4
MOTA	3676	CB	ARG		83		33.1		4.1		96.		1.00			
MOTA	3677	CG	ARG		83 83		33.0		5.2		97.		1.00		3.20	
MOTA	3678	CD	ARG		83		34.2		6.0		97.	624	1.00		9.3	
MOTA	3679	NE	ARG ARG		83		35.4			186	97.		1.00		1.5	6
MOTA	3680	CZ			83		35.5			170	97.		1.00		3.5	
MOTA	3681	NHI	ARG		83		36.4		6.2	285	98.	073	1.00			
ATOM	3682 3683	C	ARG		83		32.7		1.3	326	95.		1.00		7.7	
ATOM -	3684	0	ARG		83		33.8	93		094	95.		1.00			
MOTA	3685	N	GLU		84		32.0	11		564	96.		1.00			
MOTA MOTA	3686	CA	GLU		84		32.5		-0.		96.		1.0		5.2	
MOTA	3687	CB	GLU		84 -		31.8		-0.		98.		1.0		0.1	
ATOM	3688	CG	GLU	В	84		30.4		-0.			240	1.0	0 4a	8.3	
MOTA	3689	CD	GLU	В	84		30.3			132		293	1.0			
ATOM	3690	OE1	GLU	В	84		29.3			690		834 814	1.0	0 5	0.0	7
ATOM	3691	OE2			84		31.3			762		055	1.0		2.9	
MOTA	3692	С	GLU		84		32.5		-1. -2.			193	1.0			
ATOM	3693	0	GLU		84		33.3		-2. -1.			187	1.0	0 2	7.1	.2
ATOM	3694	N	LYS		85		31.5 31.4			177		361	1.0		0.4	
MOTA	3695	CA	LYS		85 85		29.9			401		967	1.0		30.0	
MOTA	3696	. CB	LYS		8 5		29.			643		117	1.0	0 2	28.4	10
MOTA	3697	CG	LYS LYS		85		28.2			807	92.	775		0 3	32.8	37
MOTA	3698	CD			85		28.0			048	91	928	1.0	0 3	34.1	15
MC A	3699	CE	LYS LYS		85		26.			186	91	. 507	1.0	0 3	35.3	34
A.OM	3700	NZ C	LYS		85		32.		-3.	096		.101		00 2	28.9	98
MOLA	3701 3702	ō	LYS		85		32.	817		.098		. 652		00 2	24.6	נס
MOTA	3702	N	TYR		86		32.	391		. 896		.550	_	00 4	27.8	5 E
MOTA ATOM	3704	CA	TYR		86		33.			692		.319	_	, 00	27.5 28.5	90 00
ATOM	3705	СВ	TYF		86		32.		-1.	.050		.288		0	31.	20
ATOM	3706		TYF	В	86		31.			.927		.951		י טינ	26.	99
ATOM	3707				86		31.			. 137		.276 .965	1.0	י טע חר	26.	97
MOTA	3708				86		30.			. 955		.315		00	28.	38
ATOM	3709						29.			. 553		.008		20	24.	19
ATOM	3710						28.			.370		.331		ეი	28.	46
ATOM	3711		TYF					815		.569		.008	1 1	00	22.	70
MOTA	3712	OH						747		.379		.489	1	00	24.	64
ATOM	3713		TYI				34.	160		.870 .645		. 530		00	27.	19
ATOM	3714		TYI					160		.418		.71:		00	25.	54
ATOM	3715		ASI				-	674 881		.341		. 03	2 1.	00	29.	30
ATOM	3716		ASI					105		.561		.86	5 1.	00	28.	92
MOTA	3717							343		.019		.50	5 1.	00	34.	72
MOTA	3718						30. 18	309		.452		.65	-	00	38.	41
MOTA		OD	1 AS	1 17	0 /		. ۵ ر		9							

ATOM ATOM	3720 3721	ND2 C	ASN B	87 87	39.449 36.070	1.622	92.775 92.223	1.00 35.86 1.00 29.72 1.00 24.01
MOTA	3722	0	ASN B	87	37.194	1.998	91.876 91.932	1.00 29.43
ATOM	3723	N	ILE B	88	34.956	2.282	91.932	1.00 30.64
ATOM	3724	CA	ILE B	88	34.945	3.536	90.027	1.00 37.12
ATOM-	3725	CB	ILE B	88	33.959	3.464	89.379	1.00 40.62
ATOM	3726	CG2	ILE B	88	33.821	4.829 2.433	89.008	1.00 35.43
MOTA	3727	CG1	ILE B	88	34.421	2.433	88.324	1.00 41.80
MOTA	3728	CD1		88	35.684 34.483	4.669	92.118	1.00 31.90
ATOM	3729	С	ILE B	88	33.681	4.445	93.024	1.00 28.86
MOTA	3730	0	ILE B	88	34.977	5.881	91.875	1.00 30.36
ATOM	3731	N	GLY B.	89 89	34.574	7.022	92.686	1.00 29.54
ATOM	3732	CA	GLY B	89	35.601	7.524	93.685	1.00 31.49
MOTA	3733 3734	C 0	GLY B	89	35.497	8.652	94.177	1.00 37.26
MOTA	3735	И	GLY B	90	36.583	6.687	94.005	1.00 30.97
ATOM	3736	CA	GLY B	90	37.612	7.086	94.949	1.00 31.03
MOTA MOTA	3737	C	GLY B	90	38.655	7.936	94.247	1.00 34.78
ATOM	3738	ō	GLY B	90	38.455	8.344	93.103	1.00 32.73 1.00 29.39
MOTA	3739	N	TYR B	91	39.772	8.201	94.915	1.00 29.39
ATOM	3740	CA	TYR B	91	40.820	9.023	94.322 95.405	1.00 27.29
ATOM	3741	CB	TYR B	91	41.810	9.463 8.330	96.007	1.00 26.60
MOTA	3742	CG	TYR B	91	42.609	7.823	95.359	1.00 28.55
MOTA	3743	CD1	_	91	43.738 44.456	6.762	95.896	1.00 28.75
MOTA	3744	CE1		91	42.219	7.741	97.208	1.00 28.35
MOTA	3745	CD2		91 91	42.927	6.680	97.751	1.00 27.58
MOTA	3746	CE2	TYR B	91	44.043	6.196	97.094	1.00 30.12
MOTA	3747	CZ OH	TYR B	91	44.753	5.154	97.637	1.00 36.59
MOTA	3748 3749	C	TYR B	91	41.563	8.271	93.226	1.00 29.27
MOTA	3750	ò	TYR B	91	42.109	8.874	92.308	1.00 25.22
MOTA	3751	N	GLU B	92	41.568	6.948	93.318	1.00 28.32
ATOM ATOM	3752	CA	GLU B	92	42.286	6.124		1.00 27.06 1.00 23.35
ATOM	3753	СВ	GLU B	92	42.474	4.726	92.924	1.00 29.80
ATOM	3754	CG	GLU B	92	43.502	3.884	92.221 92.826	1.00 25.34
ATOM	3755	CD	GLU B	92	43.585	2.500 1.645	92.477	1.00 32.15
ATOM	.3756		L GLU B	92	42.742	2.278	93.678	1.00 31.61
MOTA	3757	OE:			44.475 41.594	6.024	90.997	1.00 23.42
ATOM	3758	C	GLU B		42.204	6.260	89.962	1.00 20.47
MOTA	3759	0	GLU B		40.314	5.677	91.017	1.00 18.85
MOTA	3760	N CA	ASN B ASN B		39.534	5.509	89.795	1.00 21.96
MOTA	3761 3762	CB	ASN B		39.165	4.033	89.664	1.00 23.90
ATOM	3763	CG	ASN B		40.351	3.120	89.943	1.00 24.78
ATOM ATOM	3764	OD			41.362	3.160	89.239	1.00 22.35 1.00 13.35
ATOM	3765		2 ASN E		40.240	2.311	90.987	1.00 25.16
ATOM	3766	С	ASN E	93	38.285	6.362	89.94¢ 90.121	1.00 20.91
ATCM	3767	0	ASN E		37.183	5.843 7.693	89.887	
ATCM	3768	N	PRO E		38.449	8.389		1.00 19.35
ATOM	3769				39.738 37.373	8.676		1.00 24.59
ATOM	3770				38.147	9.972		1.00 25.95
ATOM	3771				39.297	9.740		1.00 22.60
MOTA	3772		PRO PRO P		36.384	8.777		1.00 28.74
MOTA	3773		PRO I		36.562	8.176	87.808	
ATOM	3774 3775		VAL I		35.332	9.553	89.112	1.00 27.14
ATOM	3776			_	34.317	9.812		
ATOM	3777				33.035	10.393		
MOTA	3778			_	32.067	10.855		
ATOM	3779				32.378	9.346		
atom atom	3780		VAL		34.912	10.861		
ATOM	3781		VAL	B 95	35.564	11.793		
ATCM	3782		SER		34.708	10.699		
ATOM	3783	C.			35.199	11.647 11.705		05 00
ATOM	3784				36.729 37.274	10.548		
ATOM	378	5 00	SER	в 96	31.2/4	10.54		

			_			24 226	11.127	83.519	1.00 26.22
ATOM	3786	-	SER B			34.726		83.462	1.00 23.57
MOTA	3787		SER B			33.943		82.438	1.00 22.83
MOTA	3788	N	TYR B			35.195	11.744	81.110	1.00 28.59
MOTA	3789		TYR B			34.818	11.279		1.00 31.45
MOTA	3790	CB	TYR B	97		34.536	12.452		1.00 31.43
MOTA	3791	CG	TYR B	97		33.279	13.203	80.548	
ATOM	3792		TYR B			33.316	14.239	81.480	
MOTA	3793	CEl	TYR B			32.148	14.863	81.911	1.00 37.73
	3794	CD2	TYR E			32.036	12.812	80.049	1.00 34.85
ATOM	3795	CE2	TYR B			30.858	13.430	80.475	1.00 38.61
MOTA	3796	CZ	TYR E			30.924	14.453	81.408	1.00 39.45
MOTA	3797	OH	TYR E	-		29.768	15.047	81.852	1.00 35.36
MOTA	3798	C	TYR E			35.883	10.354	80.534	1.00 28.93
MOTA	3799	0	TYR E	·		35.859	9.992	79.358	1.00 28.26
MOTA		N	ALA E			36.822	.9.968	81.385	1.00 29.09
MOTA	3800		ALA E			37.866	9.044	80.980	1.00 26.88
MOTA	3801	CA	ALA I			39.167	9.369	81.692	1.00 27.99
MOTA	3802	CB	ALA I			37.395	7.657	81.382	1.00 22.53
MOTA	3803	С				37.721	6.675	80.722	1.00 21.98
MOTA	3804	0	ALA I	_		36.603	7.595	82.453	1.00 23.51
MOTA	3805	И	MET I	-		36.106	6.326	82.986	1.00 26.36
MOTA	3806	CA		-		35.179	6.568	84.185	1.00 24.05
ATOM	3807	CB	MET I			33.822	7.188	83.875	1.00 28.37
MOTA	3808	CG	MET I			32.966	7.704	85.406	1.00 27.91
MOTA	3809	SD	MET I			33.106	6.227	86.409	1.00 22.12
MOTA	3810	CE	MET !			35.430	5.435	81.953	1.00 25.76
MOTA	3811	C	MET !			35.544	4.212	82.031	1.00 26.11
ATOM	3812	0	MET !			34.724	6.027	80.992	1.00 22.17
MOTA	3813	N	PHE			34.107	5.222	79.940	1.00 22.35
MOTA	3814	CA	PHE			32.582	5.133	80.088	1.00 22.01
ATOM	3815	СВ	PHE			32.362	4.254	79.038	1.00 24.22
MOTA	3816	CG	PHE			32.143	2.872	79.061	1.00 26.61
MOTA	3817	CD1	PHE			31.280	4.813	77.953	1.00 21.22
MOTA	3818	CD2				31.691	2.059	78.012	1.00 26.91
MOTA	3819	CE1				30.825	4.010	76.894	1.00 24.80
MOTA	3820	CE2	PHE			31.033	2.632	76.924	1.00 24.85
MOTA	3821	CZ	PHE		• • • •	34.425	5.695	78.514	1.00 24.86
MOTA	3822	C	PHE PHE			34.922	4.920	77.694	1.00 21.40
MOTA	3823	0	THR	_		34.131	6.957	78.204	1.00 24.24
MOTA	3824	N	THR			34.390	7.469	76.854	1.00 24.54
MOTA	3825	CA	THR			33.914	8.926	76.708	1.00 24.46
ATOM	3326	CB OG1				32.504	8.985	76.953	1.00 27.64
MOTA	3827	CG2				34.191	9.445	75.297	1.00 22.19
MOTA	3828	C	THR			35.872	7.387	76.483	1.00 25.26
MOTA	3829 3830	0	THR	B 101		36.231	6.856	75.430	1.00 25.47
MOTA	3831	Ŋ	GI.Y	B 102		36.725	7.916	77.350	1.00 23.74
ATOM	3832	CA	GLY	B 102		38.153	7.867	77.096	1.00 24.53
MOTA	3833	C	GLY	B 102		38.657	6.434	77.046	1.00 24.06
MOTA	3834	ō	GLY	B 102		39.346	6.045	76.100	1.00 22.53
ATOM	3835	N	SER	B 103		38.316		78.067	1.00 22.02
MOTA MOTA	3836	CA	SER	B 103		38.730	4.253	78.146	1.00 20.45
	3837	CB	SER	B 103		38.193		79.427	1.00 25.21
MOTA	3838	OG		в 103		38.820			1.00 26.48
MOTA	3839	c	SER	B 103		38.268			1.00 20.53
MOTA	3840	Ö	SER	B 103		39.034	2.669		1.00 16.82
MOTA	3841	N	SER	B 104		37.014	3.642		1.00 17.11
ATOM	3842	CA	SER	B 104		36.462			1.00 23.32
ATOM	3843		SER	B 104		34.980	3.289		1.00 22.93
ATOM	3844	OG	SER	B 104		34.424	2.557		1.00 24.75
MOTA	3845			B 104		37.221	. 3.288		1.00 21.97
MOTA	3545	_	SER	в 104		37.451			1.00 22.83
ATCM	3847		LEU	B 105		37.619			
atom Atom	3848		LEU	B 105		38.354			
ATOM	3349		LEU	B 105		38.443			
MOTA.	3850) CG	LEU	B 105		38.702			
ATOM	3851		1 LEU	B 105		37.662	2 6.888	70.512	1.00 52.52

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	385556789012345667890123485678888866789012348567888888899123488888888991234888888888991234888888888888888888888888888888888888	CON CECON CECON CON CECON CECO	LEU B B B B B B B B B B B B B B B B B B B	105 106 106 106 107 107 107 107 107 107 107 107 107 107	38.529 39.755 40.371 41.704 42.263 41.639 42.583 40.523 40.355 39.575 40.540 39.575 40.540 39.191 38.879 40.161 40.388 41.018 42.274 42.250 43.065 43.826 43.826 44.371	2.236	67.197 66.362 66.937 65.617 65.513 65.843 65.742 64.645	1.00 22.07 1.00 22.34 1.00 24.54 1.00 20.63 1.00 21.19 1.00 26.73
			VAL	B 111				1.00 20.35
	3889		VAL	B 111				1.00 23.29
			VAL	B 111			66.937	1.00 22.07
			GLN	B 112	42.367			
MOTA	3893	СB	GLN	B 112				1.00 20.63
			GLN	B 112		2.236	65.742	
MOTA	3896	OE:	GLN	B 112	40.664 40.667			1.00 18.33
ATOM	3897 3898		2 GLN GLN	B 112 B 112	43.826	-1.635	65.363	1.00 23. 1
atom atom	3899	0	GLN	B 112	44.195			
ATOM	3900 3901		ALA ala	B 113 B 113	44.660 46.070		66.249	1.00 18.02
MOTA MOTA	3901		ALA	B 113	46.794	-1.53		
MOTA	3903		ALA	B 113 B 113	46.170 46.982		65.02	3 1.00 19.33
MOTA MOTA	3904 . 3905		ILE	B 114	45.331	-4.09		
ATOM	3906	CA	ILE	B 114 B 114	45.344 44.507		_	1 1.00 20.72
ATOM ATOM	3907 3908			B 114	44.476	5 -7.77	9 66.80	
ATOM	3909	e ca	1 ILE	B 114	45.116 44.364		•	4 1.00 19.01
ATOM	3910 3911		I ILE ILE	B 114 B 114	44.80	3 -5.76	5 54.75	
atom atom	391		ILE	В 114	45.30			7 1.00 24.59
ATOM	391			B 115 B 115	43.79 43.24	3 -5.19	8 63.00	5 1.00 29.26
MOTA MOTA	391 391	5 CE	GLU	B 115	42.04	$ \begin{array}{r} 3 & -4.27 \\ 0 & -4.42 \end{array} $		
ATCM	391	6 CC	GLU	B 115 B 115	40.94 39.75		· -	
ATOM	391	, Ci	, ,,,,,,,					

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	3918	OE1 GLU B 115		39.980	-2.374	63.072	1.00 40.63
NOTE		OE2 GLU B 115		38.607	-3.940	63.758	1.00 39.86
MOT	3919			44.334		61.974	1.00 31.52
MOTA	3920	•		44.444		60.964	1.00 26.43
MOTA	3921	O GLU B 115		45.141		62.234	1.00 26.04
MOTA	3922	N GLU B 116		46.226	-3.522	61.324	1.00 26.21
MOTA	3923	CA GLU B 116				61.775	1.00 23.21
ATOM	3924	CB GLU B 115		46.909	-2.227	61.601	1.00 23.82
MOTA	3925	CG GLU B 115		46.055	-0.983	60.163	1.00 31.43
MOTA	3926	CD GLU B.116		45.576	-0.817		1.00 26.45
ATOM	3927	OE1 GLU B 116		46.425	-0.734	59.253	1.00 24.59
ATOM	3928	OE2 GLU B 116	-	44.349	-0.771	59.945	1.00 28.60
ATOM	3929	C GLU B 116		47.256	-4.644	61.243	1.00 25.01
ATOM	3930	O GLU B 116		47.857	-4.884	60.189	1.00 25.01
MOTA	3931	N PHE B 117		47.470	-5.324	62.363	1.00 28.05
ATOM	3932	CA PHE B 117		48.421	-6.425	62.400	1.00 28.05
MOTA	3933	CB PHE B 117		48.516	-7.007	63.805	
ATOM	3934	CG PHE B 117		49.278	-8.299	63.869	1.00 33.88
ATOM	3935	CD1 PHE B 117		50.656	-8.321	63.713	1.00 33.52
ATOM	3936	CD2 PHE B 117		48.604	-9.502	64.054	1.00 32.83
ATOM	3937	CE1 PHE B 117		51.356	-9.521	63.740	1.00 31.67
ATOM	3938	CE2 PHE B 117			-10.710	64.082	1.00 35.69
MOTA	3939	CZ PHE B 117		50.674	-10.717	63.926	1.00 36.72
	3940	C PHE B 117		47.929	-7.508	61.456	1.00 26.43
MOTA	3941	O PHE B 117		48.689	-8.061	60.669	1.00 27.61
ATOM	3942	N LEU B 118		46.642	-7.809	61.551	1.00 23.59
MOTA	3943	CA LEU B 118		46.048	-8.820	60.705	1.00 29.15
ATOM	3944	CB LEU B 118		44.585	-9.039	61.099	1.00 28.78
ATOM	3945	CG LEU B 118		44.375	-9.478	62.557	1.00 35.24
ATOM	3946	CD1 LEU B 118		42.898	-9.763	62.788	1.00 31.92
ATOM	3947	CD2 LEU B 118		45.205	-10.723	62.856	1.00 33.40
MOTA	3948	C LEU B 118		46.153	-8.422	59.236	1.00 30.15
MOTA		O LEU B 118		46.350	-9.276	58.379	1.00 27.04
ATOM	3949 3950	N LYS B 119		46.035	-7.128	58.947	1.00 27.96
MOTA	3951	CA LYS B 119		46.127	-6.663	57.569	1.00 26.69
MOTA	3952	CB LYS B 119		45.470	-5.291	57.412	1.00 23.94
MOTA	3953	CG LYS B 119		43.998	-5.260	57.795	1.00 24.41
MOTA	3954	CD LYS B 119		43.327	-3.970	57.350	1.00 27.53
ATOM	3955	CE LYS B 119		44.024	-2.739	57.886	1.00 33.13
MOTA	3956	NZ LYS B 119		43.371	-1.479	57.428	1.00 27.75
MOTA	3957	C LYS B 119		47.577	-6.598	57.101	1.00 29.12
ATOM	3958	110		47.864	-6.160	55.984	1.00 35.25
ATOM	3959			48.493	-7.034	57.958	1.00 30.25
MOTA	3960			49.896	-7.037	57.585	1.00 28.38
ATOM	3961			50.642	-5.751	57.861	1.00 27.91
MOTA	3962	100		51.775	-5.582	57.403	1.00 22.25
MOTA	3963	401		50.024	-4.836	58.600	1.00 25.42
MOTA MOTA	3964			50.695		58.919	1.00 29.49
	3965			49.758	-2.389	58.727	1.00 30.07
MOTA	3966	401		49.201	-2.307	57.325	1.00 32.25
ATOM	3967			49.924	-2.491	56.350	1.00 35.44
MOTA	3968			47.917	-2.006	57.217	1.00 32.26
ATCM	3969			51.172	~3.637	60.361	1.00 30.92
ATOM	3970	101		50.971	-4.631	61.059	1.00 27.08
MOTA	3971			51.810		60.796	
MOTA	3972			52.309	-2.457		
MOTA	3973			53.840			
MOTA	3974			54.334			
ATOM				54.446	-3.544	61.458	
ATOM	3975			51.713	-1.196		
ATOM	3976			51.800	-0.118	62.153	
ATOM	3977			51.100		63.918	
ATOM	3978			50.477		64.559	1.00 25.62
ATOM	3979			48.963		64.447	
ATOM	3980	177		50.87		66.017	
ATOM	3983			51.22		66.712	
ATOM				50.80			1.00 22.85
atom	398) N 2 ***					

ATOM ATOM ATOM MOTA MOTA	3984 3985 3986 3987 3988	CB CG CD1 CD2	PHE B 124 PHE B 124 PHE B 124 PHE B 124 PHE B 124		52.419 52.762 52.533 53.382	2.404 3.000 2.304 4.245	67.876 69.225 70.403	1.00 17.31 1.00 16.88 1.00 18.52 1.00 17.52 1.00 17.88 1.00 25.77
ATOM-	3989		PHE B 124		52.914		70.517	1.00 21.97
ATOM	3990	CE2	PHE B 124		53.769	4.790 4.084	71.698	1.00 20.16
MOTA	3991	CZ	PHE B 124		53.535	2.348	68.421	1.00 18.77
ATOM	3992	С	PHE B 124		49.937	3.311	67.820	1.00 16.62
ATOM	3993		PHE B 124		49.462 49.418	1.868	69.546	1.00 16.69
ATOM	3994	N	ASN B 125		49.410	2.528	70.238	1.00 16.22
MOTA	3995	CA	ASN B 125		47.129	1.603	70.435	1.00 12.71
MOTA	3996		ASN B 125 ASN B 125		46.095	2.209	71.346	1.00 19.79
ATOM	3997	CG	ASN B 125		45.930	3.430	71.372	1.00 20.83
ATOM	3998	ND2	ASN B 125		45.376	1.371	72.087	1.00 12.31
ATOM	3999 4000	C	ASN B 125		48.790	3.004	71.600	1.00 19.19
ATOM	4001	0	ASN B 125		48.687	2.280	72.585	1.00 20.99 1.00 19.02
MOTA	4002	N	PRO B 126		49.335	4.226	71.668	1.00 19.02
MOTA MOTA	4003	CD	PRO B 126		49.595	5.156	70.555	1.00 21.50
ATOM	4004	CA	PRO B 126		49.833	4.805	72.917 72.459	1.00 21.07
ATOM	4005	CB	PRO B 126		50.398	6.161	72.459	1.00 17.70
MOTA	4006	CG	PRO B 126		49.530	6.487 4.942	74.034	1.00 20.69
ATOM	4007	С	PRO B 126		48.808	5.053	75.198	1.00 19.79
ATOM	4008	0	PRO B 126		49.178 47.525	4.937	73.689	1.00 16.67
ATOM	4009	N	ALA B 127		46.476	5.065	74.698	1.00 20.44
ATOM	4010	CA	ALA B 127		45.198	5.609	74.066	1.00 19.56
ATOM	4011	CB	ALA B 127 ALA B 127		46.169	3.747	75.401	1.00 20.80
ATOM	4012		ALA B 127 ALA B 127		45.555	3.742	76.472	1.00 19.47
MOTA	4013	О И	GLY B 128		46.587	2.634	74.800	1.00 20 52
MOTA	4014	CA	GLY B 128		46.325	1.333	75.399	1.00 19.43 1.00 20.56
MOTA	4015 4016	C	GLY B 128		47.327	0.910	76.463	1.00 20.36
MOTA	4017	ō	GLY B 128		48.182	1.697	76.869	1.00 18.37
MOTA MOTA	4018	N	GLY B 129		47.215	-0.333	76.929 77.943	1.00 19.93
ATOM	4019	CA	GLY B 129		48.136	-0.820	79.358	1.00 25.25
ATOM	4020	С	GLY B 129		47.620	-0.619 -0.686	80.329	1.00 18.98
ATOM	4021	0	GLY B 129		48.383 46.317	-0.374	79.474	1.00 16.04
ATOM	4022	N	MET B 130		45.677	-0.161	80.768	1.00 19.26
ATOM	4023		MET B 130 MET B 130		44.301	0.451	80.519	1.00 17.94
ATOM	4024		MET B 130		44.413	1.728	79.653	1.00 22.95
ATOM	4025		MET B 130		42.873	2.615		1.00 31.83
ATOM	4026 4027				41.957	1.358		1.00 20.22 1.00 22.63
ATOM	4027		MET B 130		45.598	-1.548	81.421	1.00 22.03
ATOM	4029		MET B 130		44.546	-2.173		1.00 18.42
ATOM ATOM	4030		HIS B 131		46.737	-1.999		1.00 17.07
ATOM	4031		HIS B 131		46.853	-3.343 -3.804		1.00 17.61
ATOM	4032		HIS B 131		48.323 49.316	-2.979		1.00 14.01
ATOM	4033	G CG	HIS B 131		49.316	-1.904		1.00 13.47
ATOM	4034		2 HIS B 131		50.680	-3.190		1.00 18.00
ATOM	4035		1 HIS B 131		51.297	-2.281	83.789	
ATOM	403		1 HIS B 131 2 HIS B 131		50.384	-1.489	84.324	1.00 17.21
ATOM	403		HIS B 131		46.329	-3.724	1 83.852	
MOTA	403		HIS B 131		46.452	-4.883	84.236	
ATOM			HIS B 132		45.721	-2.79	4 84.586	
ATOM		-			45.241	-3.11		
ATOM			177		45.513	-1.93		
ATOM		3 CG	HIS B 132		46.966	-1.68	6 87.152 3 87.030	
ATOM ATOM		4 CE	2 HIS B 132		47.715			
ATOM		5 NI	O1 HIS B 132		47.810	-2.65 -2.13		7 1.00 14.64
ATOM		6 CE	21 HIS B 132	:	49.014 48.984			2 1.00 14.88
ATOM	404	7 NI	22 HIS B 132		48.904			6 1.00 22.83
ATON	404	8 C	HIS B 132)	43.778			
ATON		,9 0	HIS B 132	•				

	4050	NT	ALA B	1 2 2	42.878	-3.088	85.271	1.00	16.54
MOTA	4050	N			41.457	-3.396	85.424		19.13
MOTA	4051	CA	ALA B				84.328	1.00 2	
MOTA	4052	CB	ALA B		40.654	-2.704			23.12
MOTA	4053	С	ALA B		41.127	-4.883	85.439		
MOTA	4054	0	ALA B	133	41.718	-5.677	84.696		18.03
	4055	N	PHE B		40.181	-5.257	86.294		19.69
MOTA		CA		134	39.762	-6.649	86.365	1.00	19.35
MOTA	4056				39.583	-7.122	87.818	1.00	21.26
MOTA	4057	CB		134		-7.053	88.646		23.41
MOTA	4058	CG		134	40.837		89.544	1.00	
MOTA	4059	CD1		134	41.041	-6.009		1.00	
MOTA	4060	CD2	PHE B	134	41.820	-8.027	88.522		
MOTA	4061	CE1	PHE B	134	42.207	-5.935	90.311		23.36
ATOM	4062	CE2	PHE B	134	42.997	-7.964	89.283	1.00	
	4063	CZ		134	43.190	-6.917	90.178	1.00	24.05
MOTA				134	38.444	-6.816	85.621	1.00	18.60
MOTA	4064	C		134	37.815	-5.849	85.196	1.00	13.82
MOTA	4065	0			38.050	-8.064	85.454		19.78
MOTA	4066	N		135			84.782	1.00	
ATOM	4067	CA	LYS B		36.813	-8.421			34.06
MOTA	4068	CB		135	36.501	-9.879	85.125		
ATOM	4069	CG	LYS B	135		-10.310	84.953	1.00	
ATOM	4070	CD	LYS B	135	34.927	-11.745	85.437	1.00	
	4071	CE	LYS B	135	33.462	-12.152	85.531		55.66
MOTA	_	NZ	LYS B			-11.332	86.544	1.00	51.65
MOTA	4072		LYS B	135	35.639	-7.512	85.172	1.00	28.27
MOTA	4073	C			34.927	-6.999	84.309	1.00	24.86
MOTA	4074	0		135		-7.292	86.470		29.89
ATOM	4075	N		136	35.450				30.86
ATOM	4076	CA		136	34.331	-6.477	86.933		
MOTA	4077	CB	SER B	136	33.282	-7.388	87.582		31.57
ATOM	4078	OG	SER B	136	32.916	-8.434	86.698	1.00	45.10
MOTA	4079	С		136	34.705	-5.380	87.923	1.00	31.50
	4080	ō		136	33.887	-4.997	88.765	1.00	24.54
MOTA		И		137	35.920	-4.854	87.835	1.00	22.63
MOTA	4081			137	36.291	-3.826	88.794	1.00	25.51
MOTA	4082	CA			36.629	-4:486	90.136	1.00	29.62
MOTA	4083	CB	ARG B		36.391	-3.578	91.318		36.21
ATOM	4084	CG	ARG B			-4.160	92.631	1.00	
MOTA	4085	CD	ARG B		36.874		93.744	1 00	45.95
ATOM	4086	NE	ARG B		36.365	-3.357			
MOTA	4087	CZ	ARG B		36.863	-3.369	94.973	1.00	
ATOM	4088	NH1	ARG B	137	37.897	-4.144	95.263		43.42
ATOM	4089	NH2		137	36.322	-2.604	95.913		46.65
	4090	С	ARG B		37.461	-2.956	88.339	1.00	24.73
ATOM	4091	ō	ARG B		38.420		87.734	1.00	19.32
MOTA			ALA B	138	37.372		88.631	1.00	16.77
MOTA	4092	N	ALA B	138	38.428		88.270	1.00	18.50
MOTA	4093	CA			37.939		88.401		17.24
MOTA	4094	CB	ALA B	130	39.597		89.216		22.62
ATOM	4095	C	ALA B	138			90.346		18.98
MOTA	4096	0	ALA B	128	39 411		88.759	1 00	20.82
MOTA	4097	N	ASN B		40.301			1.00	25.17
ATOM	4098	CA	ASN B		41.989		89.585	1.00	20.59
ATOM .		CB	ASN B		42.311		89.689		
MOTA	4100	CG	ASN B		43.556		90.511	1.00	27.70
	4101	001	1 ASN B	139	43.726	-2.057	91.592	1.00	22.43
ATOM	4101	ND:		139	44.420		90.010	1.00	24.43
MOTA			ASN B	139	43.176		89.020	1.00	22.37
MOTA	4103	C	ם מכת	130	43.338		87.799	1.00	17.50
MOTA	4104	0	ASN B		43.984		89.920	1.00	21.67
MOTA	4105	N	GLY B				89.524	1 00	23.06
MOTA	4106	CA	GLY B		45.166		88.402	1 00	26.29
ATOM	4107	С	GLY B		45.005			1.00	22.47
ATOM	4108		GLY B	140	45.827		87.479	1.00	20.27
	4109		PHE E	141	43.958		88.473		22.33
ATOM	4110		_	141	43.694				19.01
ATOM			-	141	44.996		86, 997	1.00	22.90
ATOM	4111			141	45.810			1.00	23.17
MOTA	4112		1 PHE E	141	47.114			1.00	22.17
MOTA	4113		T LWE E	1 1 4 1	45.28			1.00	23.40
ATOM	4114		2 PHE E	141	47.87		_		24.02
MOTA	4115	CE	1 PHE	141	41.07	0.402		• • • •	

		J			
	num n 141	46.033	6.244 90	.361 1.	.00 23.03
	4116 CE2 PHE B 141		6.658 90		.00 25.15
ATOM	4117 CZ PHE B 141 4118 C PHE B 141	43.029	3.538 86	.214 1	.00 23.69
MOTA	141	42.596	4.283 85		.00 18.88
MOTA	142	42.962	2.211 86	5.122 1	.00 15.03
MOTA		42.380	1.578 84		.00 19.55
MOTA	- 142	43.193	0.336 84		.00 20.38
ATOM	112	44.933	0.662 84		.00 37.40
MOTA	440	40.923	1.171 85		.00 22.77
MOTA	147	40.561	0.514 86	6.082 1	.00 23.04
MOTA	5 3 4 3	40.094	1.557 84		.00 15.24
ATOM		38.675			.00 21.97
MOTA	143	37.795	2.372 83		.00 18.06
MOTA	147	38.016			.00 24.34
MOTA	143	39.038	,		00 23.20 00 27.42
ATOM	4130 CD1 TYR B 143 4131 CE1 TYR B 143	39.265		•	1.00 27.42
MOTA	4132 CD2 TYR B 143	37.226	3.055		1.00 19.15
MOTA	4133 CE2 TYR B 143	37.441	J		1.00 23.94
ATOM	4134 CZ TYR B 143.	38.458	5.900 8		1.00 23.34
ATOM	4135 OH TYR B 143	38.655		•	1.00 19.91
MOTA MOTA	4136 C TYR B 143	38.431	•	3.218 3.535	1.00 22.50
MOTA	4137 O TYR B 143	37.665	0.200	32.061	1.00 19.20
MOTA	A138 N ILE B 144	39.083		31.082	1.00 19.68
ATOM	4139 CA ILE B 144	38.938		79.787	1.00 20.26
MOTA	4140 CB ILE B 144	38.282		78.760	1.00 15.37
ATOM	4141 CG2 ILE B 144	38.151		30.113	1.00 20.93
ATOM	4142 CG1 ILE B 144	36.901		78.917	1.00 23.75
ATOM	4143 CD1 ILE B 144	36.198 40.320		80.774	1.00 22.78
ATOM	4144 C ILE B 144	41.281		80.600	1.00 22.01
MOTA	4145 O ILE B 144	40.422		80.723	1.00 23.18
MOTA	4146 N ASN B 145	41.698		80.451	1.00 20.63
MOTA	4147 CA ASN B 145	41.778	-4.935	81.243	1.00 17.81
MOTA	4148 CB ASN B 145 4149 CG ASN B 145	43.188	-5.531	81.268	1.00 25.17
ATOM	3 4 5	43.804	-5.742	80.227	1.00 23.63
MOTA	4150 OD1 ASN B 145 4151 ND2 ASN B 145	43.693		82.472	1.00 22.69
MOTA		41.780	-3.918	78.955	1.00 21.18
MOTA	1 4 6	41.389	-5.002	78.508.	1.00 17.80
MOTA	146	42.293		78.177	1.00 15.23 1.00 19.71
MOTA	4154 N ASN B 146 4155 CA ASN B 146	42.367	-3.175	76.733	1.00 17.65
ATOM	4156 CB ASN B 146	42.773	-1.880	76.015	1.00 17.05
MOTA	4157 CG ASN B 146	44.196	-1.458	76.306 75.532	1.00 20.27
MOTA MOTA	4158 OD1 ASN B 146	45.109	-1.735	77.435	1.00 11.85
ATOM	1159 ND2 ASN B 146	44.395	-0.798	76.331	1.00 19.07
ATOM	4160 C ASN B 146	43.277	-4.342	75.328	
MOTA	4161 O ASN B 146	43.030	-4.996 -4.598	77.082	1.00 17.78
MOTA	1162 N PRO B 147	44.358	-3.919	78.240	1.00 18.13
MOTA	4163 CD PRO B 147	44.953	-5.735	76.678	1.00 19.98
ATCM	4164 CA PRO B 147	45.197 46.338	-5.694	77.698	1.00 24.29
MOTA	4165 CB PRO B 147	46.425	-4.201	78.020.	1.00 26.27
ATOM	4166 CG PRO B 147	44.377	-7.041	76.757	1.00 20.91
MOTA	4167 C PRO B 147	44.461	-7.892	75.871	1.00 17.58
MOTA	4168 O PRO B 147	43.568	-7.172	77.809	1.00 15.81
MOTA	4169 N ALA B 148	42.732	-8.362	78.008	1.00 19.82
MOTA	4170 CA ALA B 148	42.049	-8.312	79.372	1.00 17.50
ATOM		41.683	-8.473	76.903	1.00 22.58
ATOM	1472 2 313 B 148	41.419	-9.567	76.404	1.00 18.38
ATCM	1474 N WAL B 149	41.080	-7.341	76.540	1.00 22.48 1.00 19.04
. ATOM	1175 C3 VAL B 149	40.086	-7.300	75.466	1.00 19.04
ATOM	149 CD 1/21 R 149	39.503	-5.877	75.281	1.00 17.32
ATOM	1177 CG1 VAL B 149	38.691	-5.800	73.988	1.00 15.33
ATOM	1178 CG2 VAL B 149	38.621	-5.531	76.462 74.166	
ATOM	1179 C VAL B 149	40.763		73.421	
ATOM	180 0 VAL B 149	40.240	-8.535	73.903	
ATCM ACC	2 CTV B 150	41.927	-7.120		2.00
ATON	·				

				GLY B 150		42.557	-7.433	72.689	1.00 19.32
	MOT	4182		GLY 3 150		43.033		72.606	1.00 19.59
	MOT	4183		GLY B 150		42.362	-9.550	71.568	1.00 22.28
	MOTA	4184	_	ILE B 151		43.558		73.700	1.00 19.51
	MOTA	4185	N	ILE B 151		43.958 -		73.723	1.00 23.21
ż	MOT	4186	CÄ	11E D 111		44.666		75.053	1.00 23.50
?	MOT	4187	CB	ILE B 151		44.918		75.158	1.00 20.01
į	MOT	4188	CG2	ILE 3 151		45.988	-10 394	75.129	1.00 21.98
ž	MOTA	4189	CG1	ILE B 151		46.716	-10.502	76.457	1.00 21.24
į	MOTA	4190	CD1	ILE B 151		42.749		73.490	1.00 28.40
2	MOTA	4191	C	ILE B 151		42.832	-12 692	72.706	1.00 22.96
ä	MOTA	4192	0	TLE B 151	•	41.523	-11 450	74.144	1.00 27.32
	MOTA	4193	N	GLU B 152		40.417	-12 265	73.939	1.00 27.62
	MOTA	4194	CA	GLU B 152		39.294	-11 845	74.886	1.00 26.46
	MOTA	4195	CB	GLU B 152		39.533	-12 200	76.347	1.00 28.26
	MOTA	4196	CG	GLU B 152		39.513	-13.708	76.592	1.00 31.10
	ATOM	4197	CD	GLU B 152		39.668	-14.123	77.767	1.00 29.55
	ATOM	4198	OE1			39.626	-14.481	75.617	1.00 30.51
	ATOM	4199				39.948	-12.125	72.497	1.00 30.30
	MOTA	1200	C			39.463	-13.982	71.893	1.00 25.58
	MOTA	4201	0	GLU B 152 TYR B 153		40.093	-10.923	71.948	1.00 26.23
	MOTA	4202	N	TYR B 153			-10.669	70.563	1.00 28.19
	MOTA	4203	CA	TYR B 153		40.082	-9.235	70.190	1.00 27.94
	MOTA	4204	CB	TYR B 153		39.379	-8.886	68.735	1.00 28.46
	ATOM	4205	CG	TYR B 153		38.618	-8.560	68.240	1.00 25.69
	MOTA	4206	CD1	TYR B 153		38.447	-8.195	66.898	1.00 30.73
	MOTA	4207	CE1	TYR B 153		40.962	-8.847	67.856	1.00 24.82 1.00 29.26
	ATOM	4208	CD2	TYR B 153		40.801	-8.488	66.526	
	MOTA	4209	CE2	TYR B 153		39.547	-8.161	66.054	1.00 31.25
	ATOM	4210	OH	TYR B 153		39.406	-7.803	64.735	1.00 34.22
	ATOM	4211	C	TYR B 153			-11.627	69.674	1.00 28.11
	MOTA	4212	0	TYR B 153			-12.248	68.759	1.00 22.06
	ATOM	4213	N	LEU B 154		41.510	-11.725	69.944	1.00 26.77
	MOTA	4214	CA	LEU B 154		42.681	-12.597	69.168	1.00 28.79
	MOTA	4215 4216	CB	LEU B 154			-12.386	69.592	1.00 28.06
	MOTA	4217	CG	LEU B 154		44.789	-11.087	69.083	1.00 27.71
	MOTA	4218	CD1				-10.860	69.759	1.00 34.15
	ATOM	4219	CD2			44.968	-11.171	67.571	1.00 26.71
	ATOM ATOM	4220	C	LEU B 154		42.299	-14.074	69.274	1.00 26.98
	ATOM	4221	Ö	LEU B 154		42.282	-14.787	68.271	1.00 29.88 1.00 23.19
	ATOM	-222	N	ARG B 155			-14.536	70.480	1.00 29.47
	ATOM	4223	CA	ARG B 155		41.622	-15.936	70.669	1.00 28.53
	MOTA	4224	СB	ARG B 155		41.339	-16.230	72.144	1.00 35.03
	ATOM	4225	CG	ARG B 155		42.527	-15.965	73.053	1.00 39.42
	ATOM	4226	CD	ARG B 155		42.212	-16.276	74.507	1.00 30.99
	ATOM	4227	NE	ARG B 155		42.165	-17.706	74.792	
	ATOM	4228	CZ	ARG B 155		41.869	-18.209	75.986	17
	ATOM	4229	NH1	l ARG B 155		41.591	-17.394	77.002 76.178	
	MOTA	4230	NH.	2 ARG B 155		41.8/2	-19.523	69.832	
	ATOM	4231	С	ARG B 155		40.393	-16.260	69.203	
	ATCM	4232	Ö	ARG B 155		40.325	-17.311	69.828	
	ATOM	4233	71	LYS B 156		39.419	-15.357	69.038	
	ATOM	4234	CA	LYS B 156		38.216	-15.573		
	ATOM	4235	CB	LYS B 156		37.148	-14.534		
	ATOM	4236	CG	LYS B 156		36.393	-14.883		
	ATCM	4237	CD	LYS B 156		37.292	-14.900		
	ATOM	423,8	CE	LYS B 156		30.000	6 -15.712 17.172		1.00 51.29
	ATOM	4239	NZ	LYS B 156		20.501	1/.1/4 -15 562		
	ATOM	4240	C	LYS B 155		30.304	-15.562		
	ATCM	4241	. o	LYS B 156		37.744	-16.088 -14.966		1.00 30.06
	ATCM	4242	N	LYS B 157		35.545	-14.966 -11.945		1 1.00 31.36
	ATOM	4243	CA	LYS B 157		755.55 200 00	3 -13.746		1.00 29.79
	ATOM	4244	CB	LYS B 157		40.588	7 -12.426		1.00 31.52
	ATOM	4245				30 131	$\frac{7}{2} - 12.424$		g 1.00 29.48
	ATOM	4246		LYS B 157		30 304	5 -11.10		
	ATCM	4247	7 CE	LYS B 157		30.39	, -,1	•	

> mo>/	4214	NT.	ILE B	165	53.964	-8.992		1.00 22.40
MOTA	4314			165	55.148	-8.518	77.285	1.00 17.72
ATOM	4315			165	56.352	-8.465	76.343	1.00 22.51
MOTA	4316	CB		165	57.582	-7.902	77.079	1.00 16.36
MOTA	4317				56.632	-9.880	75.818	1.00 19.82
MOTA	4318		ILE B	165	57.721	-9.942	74.742	1.00 21.74
MOTA	4319		ILE B	100	54.851	-7.126	77.850	1.00 22.54
MOTA	4320	С	ILE B		54.478	-6.223	77.111	1.00 16.60
MOTA	4321	0		165	55.046	-6.961	79.156	1.00 15.78
MOTA	4322		ASP B	166	54.740	-5.704	79.840	1.00 20.62
MOTA	4323		ASP B	166	53.719	-5.996	80.949	1.00 17.57
MOTA	4324	CB		166	53.713	-4.742	81.486	1.00 25.39
MOTA	4325	CG	ASP B		53.003	-3.859	82.003	1.00 19.68
MOTA	4326		ASP B	166	51.824	-4.637	81.377	1.00 29.22
MOTA	4327	_		166	55.976	-5.002	80.423	1.00 19.01
MOTA	4328	C		166	56.509	-5.412	81.456	1.00 19.74
MOTA	4329	0	ASP B LEU B	167	56.414	-3.923	79.775	1.00 17.88
MOTA	4330	N	LEU B	167	57.598	-3.211	80.235	1.00 14.99
MOTA	4331	CA	LEU B	167	58.412	-2.710	79.044	1.00 19.22
MOTA	4332	CB	LEU B	167	58.871	-3.799	78.069	1.00 22.68
ATOM	4333	CG	LEU B	167	59.835	-3.179	77.074	1.00 25.35
MOTA	4334	CD1	LEU B		59.570	-4.943	78.808	1.00 17.54
MOTA	4335		LEU B		57.284	-2.059	81.183	1.00 17.49
MOTA	4336	C	LEU B	167	58.189	-1.359	81.639	1.00 13.39
MOTA	4337	0	ASP S		56.003	-1.878	81.479	1.00 20.03
MOTA	4338	N	ASP B		55.549	-0.848	82.412	1.00 21.98
MOTA	4339	CA	ASP B		54.030	-0.955	82.597	1.00 21.21
MOTA	4340 4341	CG	ASP B		53.453	0.186	83.428	1.00 24.92
MOTA	4341	C	ASP B		56.241	-1.139	83.753	1.00 22.98
ATOM	4343	0	ASP B		56.447	-2.304	84.091	1.00 18.36
MOTA	4344		ASP B		52.849	1.099	82.825	1.00 22.03
MOTA	4345	OD2			53.606	0.189	84.676	1.00 18.43
MOTA	4346	N	ALA B		56.581	-0.095	84.514	1.00 15.46
MOTA MOTA	4347	CA	ALA B		57.263	-0.268	85.807	1.00 18.73
ATOM	4348	CB	ALA B		57.764	1.084	86.323	1.00 11.98
MOTA	4349	C	ALA B		56.400	-0.940	86.886	1.00 21.82
MOTA	4350	ō	ALA B	169	56.886	-1.262	87.980	1.00 22.51
ATOM	4351	N	HIS E		55.120	-1.134	86.600	1.00 18.75
ATOM	4352	CA	HIS E	170	54.238	-1.776	87.570	1.00 22.70 1.00 22.11
ATOM	4353	С	HIS E	170	53.716	-3.096	87.015	
ATOM	4354	0	HIS E		53.536	-3.244	85.809	1.00 21.94 1.00 21.28
ATOM	4355	CB	HIS B	170	53.050	-0.867	87.927	1.00 18.89
ATOM	4356	CG	HIS E		53.449	0.475	88.460 87.626	1.00 19.13
ATOM	4357	ND1			53.695	1.539	88.412	1.00 19.41
MOTA	4358	CEl	HIS E		54.046	2.539	89.746	1.00 19.02
MOTA	4359	CD2	HIS E	3 170	53.660	0.854 2.174	89.710	1.00 20.45
MOTA	4360	NE2	HIS E	3 170	54.042	-4.047	87.907	1.00 19.20
MOTA	4361	N	HIS E		53.474	-5.352	87.519	1.00 21.20
ATOM	4362	CA	HIS E		52.961	-6.284	88.722	1.00 22.00
MOTA	4363	CB	HIS I	171	52.964 52.541	-7.683	88.400	1.00 24.64
ATOM	4364	CG	HIS I	3 1/1	53.056		87.540	1.00 19.19
MOTA	4365	CD2	HIS	5 I/I	51.441		88.979	1.00 25.71
ATOM	4366	NDI	HIS 1	3 1/1	51.295		88.487	1.00 25.30
MOTA	4367	CEI	HIS!	5 1/1 5 171	52.261		87.612	1.00 24.71
ATOM	4368		HIS	D 1/1	51.549			1.00 23.91
ATOM	4369	C	HIS	B 171	50.677			1.00 18.93
ATOM	4370	0	HID	B 171	51.332			1.00 15.36
atom	4371	N	CIS	B 172 B 172	50.036			1.00 20.03
MOTA	4372	CA	CYS.	3 172	50.240			1.00 22.46
ATOM	4373	CB	CIS	B 172	51.259		83.419	1.00 23.49
ATOM	4374		CAC	B 172	49.110			1.00 18.05
ATOM	4375		CAC	B 172	48.712			1.00 18.23
ATOM	4376		765	B 173	48.767		87.170	1.00 16.78
ATOM	1377		765	B 173	47.909		87.928	
ATOM	1378		765	B 173	47.638			1.00 20.39
ATCM	4379		731				•	

			46.961 -5.871 89.354 1.0	00 23.40
ATOM	4380	CG ASP B 173	40,301 3.01	00 18.64
ATOM	4381	OD1 ASP B 173	40.504 .5.455 55.46	00 19.24
ATOM	4382	OD2 ASP B 173	40.004 5.002 00.00	00 17.46
ATOM	4383	C ASP B 173	40.555	00 15.53
ATOM	4384	O ASP B 173	40.102	00 13 46
	4385	N GLY B 174	43.370	00 13.46
ATOM		CA GLY B 174	44.100	00 18.18
ATOM	4386		44.904 -8.392 84.741 1.	00 17.85
ATOM	4387		44.104 - 9.316 84.583 1.1	00 18.27
MOTA	4388	O GLY B 1/4	45 051 -8 214 83 943 l·	00 16.14
MOTA	4389	N VAL B 175	46.206 -9.111 82.829 1.	00 17.00
MOTA	4390	CA VAL B 175	40.200	00 27.22
MOTA	4391	CB VAL B 175	47.505 0.555	00 19.75
ATOM	4392	CG1 VAL B 175	47.555	00 18.66
MOTA	4393	CG2 VAL B 175	40.000 1.200	00 22.82
ATOM	4394	C VAL B 175	40.000	00 18.06
MOTA	4395	O VAL B 175	40.233 11.303 02.	00 21.67
	4396	N GLN B 176	47.433 10.320	00 21.07
ATOM	4397	CA GLN B 176	47.005 42.750	00 21.55
MOTA		CB GLN B 176	40.024 11.000 00	00 19.68
MOTA	4398	457	49 088 -12 905 86.862 1.	.00 20.17
MOTA	4399	197	50 066 -12 759 87 996 1.	.00 25.42
MOTA	4400		51 243 -12 442 87.786 1	.00 21.56
MOTA	4401		49 592 -13 000 89 217 1	.00 20.18
MOTA	4402		46.689 -12.630 85.348 1.	.00 24.78
MOTA	4403	C GLN B 176	46.618 -13.817 85.057 1	.00 22.91
MOTA	4404	O GLN B 176	40.010 15.01	.00 23.69
ATOM	4405	N GLU B 177	43.731 11.00	.00 27.01
MCTA	4406	CA GLU B 177	44.5/1 10.12	.00 24.73
MOTA	4407	CB GLU B 177	45.705 44.050	.00 37.46
ATOM	4408	CG GLU B 177	42.000 12.001	.00 42.48
	4409	CD GLU B 177	41.707	.00 42.40
MOTA	4410	OE1 GLU B 177	40.075 11:00	.00 44.35
MOTA		OE2 GLU B 177	41.000	.00 45.63
MOTA	4411		42 732 -13 247 85.370 l	.00 26.56
MOTA	4412		43 240 -14 375 85 408 1	.00 27.71
ATOM	4413	470	42 573 -12 418 84.344 1	.00 24.58
ATOM	1414	170	42 776 -12 775 83.174 1	.00 25.86
MOTA	4415	CA ALA B 1/8	42 778 -11 628 82,171 1	.00 24.20
MOTA	4416	CB ALA B 178	43 231 -14 054 82,485 1	.00 25.72
ATOM	4417	C ALA B 178	42.406 -14.838 82.036 1	00 22.38
MOTA	4418	O ALA B 178		00 27.19
ATOM	4419	N PHE B 179	44.000 1	00 27.05
MOTA	4420	CA PHE B 179	44,550 15.105 00 410 1	.00 25.22
MOTA	4421	CB PHE B 179	43.714 13.000 00	.00 20.36
MOTA	4422	CG PHE B 179	44.002 14.000 10.00	.00 25.23
MOTA	4423	CD1 PHE B 179	45.507 12.00	1.00 19.22
ATOM	4424	CD2 PHE B 179	43.800 -14.332	1.00 19.25
ATOM	4425	170	44.000	1.00 19.25
ATOM	4426	170	43.120 20.000	1.00 20.65
	4427	170	40.020 20.00	1.00 25.64
ATOM		170	43.000 20.000	1.00 23.50
ATOM	4428	170	46 652 -17.182 82.038	1.00 18.26
ATOM	1429		45 689 -16 313 83.868 ·	1.00 23.24
ATOM	4430	100	16 170 -17 106 84.799 J	1.00 26.76
MOTA	4431		46 150 -16 665 86.231	1.00 25.72
MOTA	4432	100	47 226 -16 969 87.247	1.00 29.66
MOTA	4433	CG TYR B 180	47.037 -17.942 88.237	1.00 27.07
MOTA	4434	CD1 TYR B 180	48.039 -18.222 89.170	1.00 30.08
ATOM	4435	CE1 TYR B 180	40.000 -10.222	1.00 29.68
ATOM	4436	CD2 TYR B 180	40.444 -10.202	1.00 30.99
ATCM	443	CE2 TYR B 180	43.431 -10.332	1.00 33.16
ATOM	4438	CZ TYR B 180	49.240 17.322	1.00 33.10
	1439	= 100	30.202 -17.732	1.00 28.47
ATOM	4440	100	40.230 -10.045	1.00 23 43
ATOM		2 100	47.163 -19.416 84.922	1.00 23.43
ATOM	144	101	45.073 -19.021 84.190	1.00 25.67
ATOM	444	n 101	44.784 -20.445 84.075	1.00 28.28
ATOM			43.446 -20.759 84.757	1.00 32.13
ATOM	144	101	42.247 -20.410 83.890	1.00 36.12
ATCM	144	5 CG YSb B 181		

> mOM	4446	വവ	ASP B	181	42.	202	-19.300	83.329	1.00 41.04
MOTA							-21.249	83.782	1.00 44.36
ATOM	4447	OD2		181					
ATOM	4448	C	ASP B	181	44.	773	-21.018	82.664	1.00 32.41
			ASP B		44	246	-22.115	82.444	1.00 31.67
MOTA	4449	0					-20.302	81.702	1.00 29.24
ATOM	4450	N	THR B						
ATOM	4451	CA	THR B	182	45.	363	-20.823	80.340	1.00 30.57
					ΛΛ	468	-20.008	79.397	1.00 30.03
MOTA	4452	CB _	THR B	102	-3.49	400	20.000		1.00 28.22
ATOM	4453	OG1	THR B	182	44.	516	-20.598	78.095	
	4454	CC2	THR B	182	44.	947	-18.561	79.310	1.00 26.55
MOTA			Ink 5	102	16	750	-20.870	79.740	1.00 32.31
ATOM	4455	С	THR B						
ATOM	4456	0	THR B	182			-20.007	80.008	1.00 27.27
			ASP B		46	999	-21.878	78.909	1.00 29.94
MOTA	4457	N			40	206	-22.049	78.273	1.00 31.40
MOTA	4458	CA	ASP B	183					
ATOM	4459	CB	ASP B	183			-23.536	78.228	1.00 33.36
			ASP B		47	718	-24.319	77.328	1.00 33.33
MOTA	4460	CG					-23.988	77.287	1.00 28.06
ATOM	4461	ODl	ASP B						
ATOM	4462	OD2	ASP B	183	48	.186	-25.271	76.675	
			ASP B		48	.321	-21.462	76.864	1.00 31.14
ATOM	4463	С					-21.557	76.168	1.00 28.74
MOTA	4464	0	ASP B						1.00 25.34
MOTA	4465	N	GLN B	184			-20.852	76.446	
			GLN B		47	151	-20.251	75.118	1.00 28.59
MOTA	4466	CA					-20.256	74.581	1.00 26.84
MOTA	4467	CB	GLN B	184	45	. /12	-20.230		
ATOM	4468	CG	GLN B	184	45	.060	-21.632	74.529	1.00 34.86
			GLN B		43	760	-21.647	73.736	1.00 32.27
ATOM	4469	CD	_					73.912	1.00 35.43
MOTA	4470	0E1	GLN B	184			-20.789		
ATOM	4471	NE2	GLN B	184	43	.611	-22.641	72.870	1.00 28.92
			GLN B		47	.672	-18.817	75.175	1.00 27.28
ATOM	4472	С					-18.171	74.148	1.00 29.70
MOTA	4473	0	GLN B	184					
ATOM	4474	N	VAL B	185	47	.900	-18.325	76.386	1.00 27.64
			VAL B		48	400	-16.972	76.575	1.00 26.26
MOTA	4475	CY					-16.039	77.145	1.00 22.85
MOTA	4476	CB	VAL B			.304			1.00 23.10
MOTA	4477	CG1	VAL B	185	47	.879	-14.642	77.395	
		CG2			46	.136	-15.967	76.191	1.00 21.67
MOTA	4478		VAL D	105			-16.964	77.547	1.00 27.01
MOTA	4479	Ç	VAL B						1.00 23.75
ATOM	4480	0	VAL B	185	49	. 456	-17.469	78.663	1.00 23.75
	4481	N	PHE B	186	50	.696	-16.403	77.115	1.00 22.02
MOTA						.868		77.978	1.00 21.83
ATOM	4482	CA	PHE B					77.252	1.00 17.02
ATOM	4483	CB	PHE E	186		.142			
-	4484	CG	PHE E		54	.336	-16.921	78.170	1.00 24.84
ATOM					5.4	.756	-18.189	78.580	1.00 22.70
MOTA	4485	CD1						78.670	1.00 20.26
MOTA	4486	CD2	PHE E	186		.004			1.00 20.20
MOTA	4487	CEI	PHE E	186	55	.819	-18.338	79.471	1.00 21.47
				_	56	071	-15.941	79.563	1.00 20.01
ATOM .	4488	CE2				.481		79.968	1.00 17.84
ATOM	4489	CZ	PHE E	3 186					
ATOM	4490	C	PHE E	186		.032		78.368	1.00 18.12
			PHE E		52	038	-13.946	77.508	1.00 15.92
ATC ·	4491	0							1.00 18.06
ATO4	4492	N	VAL E			.161		79.661	1 00 17 67
ATOra	4493	CA	VAL E	187			-13.208	80.153	1.00 17.67
			VAL E	197			-12.839	81.225	1.00 22.85
atom	4494	CB				500	-11.473	81.840	1.00 24.08
ATOM	4495	ÇG:	L VAL E	3 TR/	21		-11.41.		
MOTA	1496	CG2	VAL E	3 187	49	.882	-12.808	80.598	
	1407		VAL E	197	57	.735	-13.060	80.788	1.00 18.32
ATOM	4497	C				000	-13.807	81.707	1.00 18.82
MOTA	1498	0	VAL E		24	1.032	-13.007		
ATOM	4499	N	LEU I	188	54	1.503	-12.103		1.00 14.70
		CA	- F11 1	3 188	5.5	.832	-11.789	80.798	1.00 18.84
MOTA	4500					and	-11.948	79.716	1.00 18.64
ATCM	4501	CB		3 188					1.00 21.23
ATOM	4502	CG	LEU !	3 188			-11.277	80.082	1.00 21.23
			1 LEU		5.5	3.769	-11.832	81.395	1.00 18.55
ATOM	4503				E (227	-11.489	78.957	1.00 20.49
ATOM	4504	CD:	2 LEU 1				-11.403		
ATOM	4505	c	LEU !	B 188	5 :	5.836	-10.339	81.280	
		ō	LEU		5 !	5.52	7 -9.410	80.517	1.00 19.96
atom	4506		، الاعتباد	2 200			7 -10.133	82.540	
ATOM	4507	N		B 189					
ATOM	4508	CA	SER :	B 189		5.20		83.061	1.00 21.00
		СВ		B 189	5	4.95	5 -8.543	83.908	1.00 25.95
atom	4509					4.988		84.475	1.00 21.91
ATOM	4510	OG		B 189			_		
ATOM	4511	C	SER	B 189	5	7.42	3 -8.420	83.883	1.00 23.02
ALCII		_							

		•					1.00 18.61
ATOM	4512	O .SER B 189		7.829	-9.174	84.766	
ATOM	4513	N LEU B 190	5	8.020	-7.269	83.569	1.00 20.33
	4514	CA LEU B 190	5	9.149	-6.767	84.347	1.00 21.85
MOTA				0.278	-6.226	83.473	1.00 22.85
MOTA	4515			0.964	-7.089	82.413	1.00 32.59
ATOM	4516	CG LEU B 190					1.00 29.27
MOTA	4517	CD1 LEU B 190		2.337	-6.479	82.140	1.00 31.98
ATOM	4518	CD2 LEU B 190	6	1.136	-8.511	82.379	
	4519	C LEU B 190	5	8.505	-5.613	85.085	1.00 21.28
ATOM				7.695	-4.897	84.501	1.00 15.72
_ATOM	4520			8.857	-5.421	86.351	1.00 18.16
ATOM	4521	N _ HIS B 191			-4.357	87.145	1.00 17.46
ATOM	4522	CA HIS B 191		8.249		87.369	1.00 16.00
ATOM	4523	CB HIS B 191		6.759	-4.690		1.00 22.14
ATOM	4524	CG HIS B 191		6.517	-6.085	87.880	
	4525	CD2 HIS B 191	5	6.341	-6.551	89.143	1.00 12.25
ATOM	4526	ND1 HIS B 191	9	6.372	-7.179	87.049	1.00 18.02
MOTA				6.119	-8.256	87.775	1.00 3.17
MOTA	4527			6.094	-7.902	89.049	1.00 19.79
MOTA	4528				-4.197	88.484	1.00 17.41
ATOM	4529	C HIS B 191		8.945		88.867	1.00 18.74
ATOM	4530	O HIS B 191		59.769	-5.029		1.00 18.20
MOTA	4531	N GLN B 192		58.618	-3.114	89.182	
	4532	CA GLN B 192		59.173	-2.854	90.502	1.00 18.41
MOTA		CB GLN B 192	1	58.690	-1.500	91.034	1.00 20.71
MOTA	4533			58.871	-0.334	90.072	1.00 21.49
MOTA	4534			58.226	0.930	90.594	1,00 20.65
ATOM	4535	CD GLN B 192				91.459	1.00 21.52
ATOM	4536	OE1 GLN B 192		58.775	1.615		1.00 15.10
ATOM	4537	NE2 GLN B 192		57.029	1.226	90.098	1.00 17.55
ATOM	4538	C GLN B 192		58.608	-3.945	91.395	1.00 17.33
	4539	O GLN B 192		57.415	-4.256	91.320	1.00 17.48
ATOM	4540	N SER B 193		59.447	-4.522	92.240	1.00 15.71
ATOM				58.986	-5.574	93.143	1.00 20.58
MOTA	4541	Q U		60.093	-5.963	94.120	1.00 20.71
MOTA	4542	CB SER B 193		59.571	-6.804	95.138	1.00 22.55
MOTA	4543	OG SER B 193				93.947	1.00 21.81
MOTA	4544	C SER B 193		57.774	-5.112		1.00 20.82
ATOM	4545	O SER B 193		57.769	-4.003	94.486	
ATOM	4546	N PRO B 194		56.745	-5.967	94.063	1.00 21.80
	4547	CD PRO B 194		56.648	-7.331	93.524	1.00 24.27
ATOM		CA PRO B 194		55.524	-5.643	94.812	1.00 23.58
ATOM	4548			54.678	-6.909	94.642	1.00 22.98
MOTA	4549			55.168	-7.458	93.317	1.00 26.35
ATOM	4550	CG PRO B 194			-5.366	96.283	1.00 25.79
MOTA	4551	C PRO B 194		55.841		97.022	1.00 27.26
ATOM	4552	O PRO B 194		55.009	-4.831		1.00 23.20
ATOM	4553	N GLU B 195		57.045	-5.736	96.710	1.00 29.56
ATOM	4554	CA GLU B 195		57.428	-5.514	98.093	1.00 29.30
	4555	CB GLU B 195		58.816	-6.090	98.379	1.00 32.38
ATOM		CG GLU B 195		58.940	-7.567	98.049	1.00 45.25
ATOM	4556			60.206	-8.189	98.613	1.00 50.44
ATOM	4557	CD GLU B 195		61.290	-7.580	98.471	:.00 50.51
MOTA	4558	OE1 GLU B 195		60 110	-9.297	99.184	.00 49.77
MOTA	4559	OE2 GLU B 195		60.118		98.425	1.00 25.11
ATOM	4560	C GLU B 195		57.414	-4.035		1.00 29.05
ATOM	4561	O GLU B 195		57.095	-3.659	99.551	
ATOM	4562	N TYR B 196		57.729	-3.191	97.445	1.00 22.90
	4563	CA TYR B 196		57.743	-1.750	97.696	1.00 22.46
ATOM				59.188	-1.223	97.668	1.00 22.72
ATCM	4564			59.855	-1.234	96.301	1.00 24.17
MOTA	.4565			59.639		95.385	1.00 20.87
ATOM	4566						
ATOM	4567	CE1 TYR B 196		60.229			
ATOM	4568	CD2 TYR B 196		60.684			
ATOM	4569	100		61.276			1
	4570	100		51.042	-1.284		
ATOM				61.592		92.492	1.00 19.86
ATCM	4571	100		56.896			1.00 23.54
ATOM	4572	100		56.779			1.00 17.53
ATOM	4573						
ATOM	4574	N ALA B 197		56.293			
ATOM	4575	CA ALA B 197		55.503			
	4576	CB ALA B 197		56.310			1.00 23.03
ATOM	1577			54.153	-1.412	94.413	1.00 22.80
ATOM	40,,					-	

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	4578	0	ALA B 197		53.910	-2.609	94.549	1.00 17.67
MOTA	4579	N	PHE B 198		53.278	-0.541	93.932	1.00 26.40
ATOM	4580	CA	PHE B 198		51.956	-0.950	93.495	1.00 28.19
MOTA	4581	СВ	PHE B 198		51.152	0.263	93.035	1.00 29.51
MOTA	4582	CG	PHE B 198		49.721	-0.050	92.711	1.00 29.50
MOTA	4583	CD1	PHE B 198		48.732	0.100	93.674	1.00 32.77
MOTA	4584	CD2	PHE B 198		49.367	-0.533	91.455	1.00 25.82
MOTA	4585	CEI	PHE B 198		47.410	-0.223	93.394	1.00 36.70
MOTA	4586	CE2	PHE B.198		48.050	-0.858	91.170	1.00 29.29
MOTA MOTA	4587	CZ	PHE B 198		47.071	-0.703	92.141	1.00 33.05
ATOM	4588	c	PHE B 198		52.170	-1.858	92.284	1.00 28.28
ATOM	4589	Õ	PHE B 198		53.045	-1.602	91.456	1.00 27.15
ATOM	4590	N	PRO B 199		51.407	-2.952	92.185	1.00 31.37
ATOM	4591	CD	PRO B 199		51.440	-3.887	91.045	1.00 37.07
ATOM	4592	CA	PRO B 199		50.386	-3.369	93.144	1.00 35.32 1.00 33.88
MOTA	4593	CB	PRO B 199		49.545	-4.328	92.321	
ATOM	4594	CG	PRO B 199		50.641	-5.068	91.578	1.00 36.75 1.00 36.93
ATOM	4595	Ċ	PRO B 199		51.241	-4.082	94.184	1.00 50.93
ATOM	4596	0	PRO B 199		52.308	-4.603	93.860	1.00 30.93
ATOM	4597	N	PHE B 200		50.804	-4.127	95.422	1.00 30.13
ATOM	4598	CA	PHE B 200		51.644	-4.763	96.421	1.60 28.70
MOTA	4599	CB	PHE B 200		51.547	-3.968	97.723 97.543	1.00 29.98
MOTA	4600	CG	PHE B 200		51.760	-2.485		1.00 28.92
ATOM	4601	CD1	PHE B 200		50.717	-1.660	97.137 97.746	1.00 23.60
ATOM	4602	CD2			53.016	-1.919	96.938	1.00 27.63
ATOM	4603	CE1			50.922	-0.289 -0.558	97.547	1.00 23.56
MOTA	4604	CE2	PHE B 200		53.229	0.260	97.143	1.00 28.37
MOTA	4605	CZ	PHE B 200		52.182	-6.227	96.658	1.00 25.51
ATOM	4606	С	PHE B 200		51.296 52.112	-6.984	97.167	1.00 20.92
MOTA	4607	0	PHE B 200		50.094	-6.618	96.252	1.00 27.41
MOTA	4608	N	GLU B 201		49.576	-7.972	96.454	1.00 31.98
ATOM	4609	CA	GLU B 201		48.056	-7.928	96.487	1.00 31.57
MOTA	4610	CB	GLU B 201 GLU B 201		47.486	-6.935	97.449	1.00 39.17
MOTA	4611	CG	GLU B 201 GLU B 201		45.987	-6.853	97.316	1.00 40.31
MOTA	4612	CD			45.332	-7.902	97.500	1.00 38.90
ATOM	4613	OE1			45.475	-5.751	97.019	1.00 35.04
MOTA	4614	OE2 C	GLU B 201		49.979	-9.018	95.422	1.00 30.83
MOTA	4615 4616	0	GLU B 201		49.901	-10.219	95.690	1.00 26.34
MOTA	4617	И	LYS B 202		50.362	-8.573	94.234	1.00 24.95
MOTA	4618	CA	LYS B 202		50.764	-9.501	93.195	1.00 22.79
atom Atom	4619	CB	LYS B 202		49.588	-9.773	92.258	1.00 25.12
MOTA	4620	CG	LYS B 202		48.484	-10.523	93.000	1.00 35.38
MOTA	4621	CD	LYS B 202		47.431	-11.099	92.103	1.00 38.67 1.00 40.98
ATOM	4622	CE	LYS B 202			-11.998	92.903	1.00 46.65
MOTA	4623	NZ	LYS B 202			-12.659	92.028	1.00 40.03
ATOM	4624	C	LYS B 202		51.975	-9.007	92.435	1.00 21.83
ATOM	4625	О	LYS B 202		52.355	-7.838	92.549	1.00 21.60
ATOM	4626	11	GLY B 203		52.598	-9.910	91.684 90.928	1.00 17.00
ATOM	4627	CA	GLY B 203		53.779	-9.545	_	
ATOM	4628	С	GLY B 203		55.014	-10.297 -10.070		
ATOM	4629		GLY B 203		20.101	-11.201		
MOTA	4630		PHE B 204		54.833 EE 001	-11.201		
MOTA	4631		PHE B 204		33.332 SE 200	-12.567		1.00 22.72
MOTA	4632		PHE B 204		55.09U	-11.549		1.00 25.26
ATOM	4633				54 235	-10.977		1.00 23.80
MOTA	4634				56 551	-11.159		1.00 20.25
MOTA	4635		2 PHE B 204		54 048	-10.036		1.00 29.98
ATOM	4636		1 PHE 3 204		56 377	-10.221		1.00 24.40
ATOM	4637				55.124			1.00 25.54
ATOM	4638		PHE B 204		56 412	-13.057		1.00 25.86
atom	4639		PHE B 204		55 613	-13.540		1.00 20.65
atom	4640		PHE B 204			-13.449		1.00 24.25
MOTA	464		LEU B 205		58.233	-14.472		1.00 30.66
ATOM	1642		000	, :		-14.63		
ATCM	164	CE	1 1 EU B 203	,			•	

	4544	cc :	EU 3 205		60.495 -	15.669		1.00 3	
MOTA	4644	CG L	.EU 3 205		60.356 -	15.382	89.109	1.00 3	
MOTA	4645				61.957 -		91.005	1.00 3	6.49
ATOM	4646		EU B 205		57.535 -		91.205	1.00 3	
ATOM	4647	C I	EU 3 205				90.220	1.00 2	5.89
ATOM	4648	0 I	EU 3 205		57.467 -			1.00 3	
	4649		ELU B 206		57.010 -	-16.147	92.382		
ATOM		CA C	ELU B 206		56.338 -	-17.423	92.605	1.00 3	0.64
ATOM	4650	CA C	ELU B 206		56.025 -		94.093	1.00 3	
MOTA	4651		3 <u>0</u> 0 B 200		57.227 -	-17 512	95.033		2.50
MOTA	4652	CG (ELU B 206		57.718	-16 084	95.270	1.00 4	5.76
MOTA	4653	CD (GLU B 206		57.710	15 430	94.333	1.00 4	2.62
ATOM	4654	OE1 (GLU B 206		58.228 -	-15.436		1.00 5	
ATOM	4655	OE2 (GLU B 206		57.585	-15.602	96.413		
	4656		GLU 3 206		55.045	-17.587	91.811	1.00 3	1.13
ATOM			GLU B 206		54.607	-18.708	91.563	1.00 2	8.18
MOTA	4657	_	GLU B 207		54.430	-16.472	91.425	1.00 2	
ATOM	4658				53.178		90.664	1.00 2	8.78
MOTA	4659			•	52.546		90.695	1.00 3	0.76
MOTA	4660		GLU B 207			-14.659	92.093	1.00 2	9.39
ATOM	4661		GLU B 207				92.230	1.00 2	7.87
ATOM	4662	CD (GLU B 207		52.057			1.00 2	4 38
ATOM	4663	OE1	GLU B 207			-12.477	91.261	1.00 2	2.36
ATOM	4664	OE2	GLU B 207		52.389	-12.636	93.316		
			GLU B 207		53.453	-16.922	89.224		9.48
MOTA	4665		GLU B 207		53.658	-16.077	88.351		27.48
MOTA	4666					-18.230	88.976		26.67
MOTA	4667					-18.754	87.646		32.60
MOTA	4668	CA	ILE B 208			-19.877	87.740	1.00	34.26
MOTA	4669	CB	ILE B 208		• • • • •	-20.296	86.352	1.00	
ATOM	4670	ÇG2	ILE B 208				88.532		36.07
ATOM	4671	CG1	ILE B 208			-19.404		1.00	
ATOM	4672	CD1	ILE B 208			-18.338	87.851		32.26
	4673	. С	ILE B 208		52.522	-19.289	86.870		
MOTA	4674	Ö	ILE B 208			-19.799	85.759	1.00	27.43
ATOM			GLY B 209		51.328	-19.165	87.442	1.00	32.60
MOTA	4675	N	-			-19.652	86.760	1.00	35.07
MOTA	4676	CA	•			-20.892	87.420	1.00	36.19
MOTA	4677	С	GLY B 209 .		ED 330	-21.524	88.235	1.00	31.61
MOTA	4678	0	GLY B 209			-21.245	87.066	1 00	36.98
ATOM	4679	N	GLU B 210				87.647	1 00	40.60
ATOM	4680	CA	GLU B 210		47.677	-22.412			37.98
ATOM	4681	CB	GLU B 210		46.633	-21.964	88.672	1.00	42.78
	4682	CG	GLU B 210			-21.234	88.058		
MOTA	4683	CD	GLU B 210			-20.717	89.098	1.00	48.41
MOTA		053	GLU B 210		43.400	-20.202	88.709	1.00	51.03
MOTA	4684		GLU B 210		44.778	-20.814	90.306	1.00	49.90
MOTA	4685	OE2				-23.248	86.564	1.00	39.48
MOTA	4686	C				-22.751	85.471		33.65
ATOM	4687	0	GLU B 210		46 736	-24.515	86.876	1.00	39.18
MOTA	4688	N	GLY B 211		46.730	-25.399	85.923	1.00	38.43
MOTA	4689	CA	GLT B 211		46.007	25.500	84.637		40.29
MOTA	4690	С	GLY B 211		46.877	-25.500	84.666		39.39
ATOM	4691		GLY B 211		48.101	-25.610		_	40.90
ATOM	4692		LYS B 212		46.187	-25.458	83.504		43.53
	4693		LYS B 212		46.864	-25.538	82.219	1.00	43.33
MOTA			LYS B 212		45.842	-25.548	81.080		47.87
ATOM	4694		LYS B 212		44.795	-26.665	81.144	1.00	53.09
ATOM	4695		L15 5 212		45 398	-28.076	81.130	1.00	58.61
ATOM	4696		LYS B 212		45.050	-28.454			59.78
MOTA	4697	CE	LYS B 212		46.009	20.434			62.17
MOTA	4698	NZ	LYS B 212		46.670	-29.825			38.84
ATOM	4699		LYS B 212		47.823	-24.363			40.33
	4700		LYS B 212		48.797	-24.457	81.295		27 20
ATOM	4701		GLY B 213		47.543	-23.262	82.731		37.20
MOTA			GLY B 213		48.384	-22.081	82.627		34.66
ATOM	4702		GLY B 213		49.625	-22.107	83.509	1.00	37.09
ATOM	4703		2112 2 212			-21.165		1.00	25.85
ATOM	4704		GLY B 213		10.32	-23.180		3 1.00	33.33
ATOM	4705	2 13	LYS B 214		43.74 EN 051	-23.100		3 1.00	37.90
ATOM	4706		LYS B 214		50.75	43.47 48.60			38.89
ATOM	170		LYS B 214			5 -24.598			39.29
ATOM	4708	B CG	ETS B 214		52.032	2 -24.78		4 1 00	43.60
ATOM			LYS B 214		51.870	6 -26.094	87.70	<u>. 1.00</u>	, ,,,,,,,
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ATOM	4710	CE 3	LYS B 214		53.047	-26.334	88.640	1.00 47.36
			LYS B 214		53.165	-25 264	89.666	1.00 54.03
MOTA	4711							1.00 34.16
ATOM	4712	C :	LYS B 214		52.209	-23.275	84.291	
			LYS B 214		52.404	-24.136	83.438	1.00 34.70
atom	4713						84.523	1.00 33.58
ATOM	4714		GLY B 215		53.057			1.00 33.30
	4715	CA S	GLY B 215		54.275	-22.152	83.743	1.00 28.27
ATOM		CA .	301, 5 215				82.605	1.00 31.02
MOTA	4716	C (GLY B 215		54.104		02.005	
	4717		GLY B 215		55.033	-20.911	81.833	1.00 23.68
MOTA					52.918		82.493	1.00 22.45
ATOM	4718		TYR B 216					
ATOM	4719	CA '	TYR B 216		52.683	-19.605	81.426	1.00 24.03
						-20.013	80.603	1.00 17.60
MOTA	4720	CB '	TYR B 216	•				
MOTA	4721	CG '	TYR B 216			-21.291	79.806	
		CD1 1	TYR B 216		51 692	-22.538	80.435	1.00 21.41
MOTA	4722						79.729	1.00 23.78
MOTA	4723	CE1 '	TYR B 216			-23.704		
	4724	CD2	TYR B 216		51.970	-21.242	78.439	1.00 19.62
MOTA						-22.402	77.72 - 2	1.00 26.39
ATOM	4725		TYR B 216					
MOTA	4726	CZ	TYR B 216		52.277	-23.630	78.379	1.00 29.35
			TYR B 216	•	52 577	-24.782	77.690	1.00 27.75
ATOM	4727							1.00 24.53
ATOM	4728	С	TYR B 216			-18.153	81.884	
	4729		TYR B 216		52.065	-17.298	81.159	1.00 18.99
ATOM						-17.886	83.098	1.00 21.41
MOTA	4730	N	ASN B 217					
	4731	CA	ASN B 217		53.073	-16.534	83.642	1.00 21.23
ATOM						-16.325	84.669	1.00 16.78
MOTA	4732		ASN B 217					1.00 22.07
MOTA	4733	CG	ASN B 217		51.882	-14.889	85.162	
			ASN B 217		52 506	-14.521	86.163	1.00 23.13
MOTA	4734						84.435	1.00 19.26
ATOM	4735	ND2	ASN B 217			-14.058		
	4736	С	ASN B 217		54.437	-16.339	84.291	1.00 19.40
MOTA						-17.145	85.124	1.00 19.28
ATOM	4737		ASN B 217					
MOTA	4738	N	LEU B 218		55.130	-15.273	83.905	1.00 18.65
		63	LEU B 218		56 459	-15.004	84.444	1.00 16.41
MOTA	4739							1.00 18.29
MOTA	4740	CB	LEU B 218			-15.244	83.368	
			LEU B 218		58.851	-15.872	83.782	1.00 28.15
MOTA	4741					-15.563	82.695	1.00 20.50
MOTA	4742	CD1	LEU B 218					
ATOM	4743	CD2	LEU B 218		59.332	-15.348	85.116	1.00 22.53
		•			56 595	-13.562	84.926	1.00 17.89
MOTA	4744	С						1.00 14.48
ATOM	4745	0	LEU B 218			-12.627	84.128	
		N	ASN B 219		56.859	-13.395	86.219	1.00 14.09
ATOM	4746					-12.075	86.821	1.00 18.41
MOTA	4747	CA	ASN B 219					
MOTA	4748	CB	ASN B 219		56.238	-11.922	88.111	1.00 14.64
			ASN B 219		54 748	-11.898	87.868	1.00 27.12
MOTA	4749	CG					86.880	1.00 20.21
ATOM	4750	OD1	ASN B 219			-11.332		
	4751		ASN B 219		53.982	-12.480	88.787	1.00 23.62
ATOM						-11.843	87.172	1.00 20.39
ATOM	4752	С	ASN B 219					1.00 20.41
ATOM	4753	0	ASN B 219			-12.672	87.841	
			ILE B 220		59.056	-10.717	86.729	1.00 15.11
MOTA	4754	N				-10.394	87.033	1.00 17.16
MOTA	4755	CA	ILE B.22C					
	4756	CB	ILE B 22(61.250	-10.083	85.740	1.00 20.78
ATOM			D 220		62.736	-9.821	86.094	1.00 18.08
ATOM	4757	CGZ	ILE B 22C					1.00 17.62
ATOM	4758	CG1	ILE B 220		61.138	-11.250	84.748	
			ILE B 220		61.646	-12.590	85.273	1.00 20.72
ATOM	4759		D 220		60.475	-9.161	87.947	1.00 21.17
MOTA	4760	C	ILE B 220					1.00 21.17
	4761	0	ILE B 220		60.565	-8.036	87.470	.1.00 16.03
ATOM					60.367		89.274	1.00 21.74
MOTA	4762	Ň	PRO B 221					1.00 22.96
ATOM	4763	CD	PRO B 221		60.135	-10.619	90.000	
			PRO B 221		60.394	-8.225	90.213	1.00 19.16
ATOM	4764	CA					91.523	1.00 19.40
ATOM	4765	CB	PRO B 221		59.947			1.00 15.40
	4766	CG	PRO B 221		60.564	-10.251	91.407	1.00 23.02
ATOM					61.799		90.289	1.00 22.42
ATOM	4767	C	PRO B 221					1.00 20.71
ATOM	4768	0	PRO B 221		62.780	-8.369	90.425	1.00 20.71
			LEU B 222		61.899	-6.309	90.202	1.00 22.74
MCTA	4769	И					90.223	1.00 21.18
ATOM	1770	CA	LEU B 222		63.198			1.00 21.10
	4771	CB	LEU B 222		63.453	-4.993	88, 850	1.00 17.21
atom			720 2 222		63.467		87.721	1.00 20.26
ATCM	4772	CG	LEU B 222			-0.02/		1.00 20.00
ATOM	4773	CD1	LEU B 222		63.453			
		CDJ	LEU B 222		64.696	-6.908	87.881	1.00 21.93
ATCM	4774		PEO D 222					1.00 20.04
ATOM	4775	С	LEU B 222		63.335	-4.616		1.00

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4835 OE2 GLU B 440	64.571 65.806 64.873 66.884 66.884 66.884 66.884 66.884 66.885 64.755 63.415 62.425 66.038 67.768 66.238 67.768 66.238 67.768 67.768 67.768 67.768 67.768 67.768 67.729 67	-4.394 -5.072 -3.454 -3.454 -3.481 -1.594 -1.594 -1.338 -1.338 -1.338 -1.338 -1.338 -1.338 -1.338 -1.338 -1.388	91.830 91.4015 91.830 91.4015 91.830 91.4015 91.830 91.912 91.830 92.313 91.5380 91.5380 91.5380 91.659 91.8580 91	1.00 23.01 1.00 24.73 1.00 27.28 1.00 27.47 1.00 27.87 1.00 26.79 1.00 24.25
ATOM	4831 CB GLU B 230 4832 CG GLU B 230	71.069	-3.201	87.087	1.00 27.28
	77.			88.569	1.00 27.87
	1835 OE2 GLU B 230	71.286	-3.232		1.00 26.79
ATOM	4836 C GLU B 230	68.749	-4.28 -5.44		1.00 15.89
ATCM	4837 O GLU B 230	68.347 68.391			1.00 21.46
ATOM	1838 N PHE B 231	66.814			1.00 22.84
ATOM	on our P 231	66.210	-2.07	9 82.529	1.00 23.96
, ATOM		64.803			
ATOM		54.000		-	
•					

1004	4842	CDI	PHE B	231	63.738	-2.514	82.805	1.00 25.00
MOTA					64.550	-1.956	80.627	1.00 22.93
MOTA	4843	CD2	PHE B					
MOTA	4844	CEl	PHE B	231	62.440	-2.618	82.304	1.00 25.03
		CE2	PHE B		63.250	-2.059	80.114	1.00 27.46
MOTA	4845				62.196	-2.390	80.957	1.00 20.25 .
MOTA	4846	CZ	PHE B					1.00 23.14
MOTA	4847	С	PHE B	231	66.978	-4.288	81.677	
MOTA	4848	0	PHE B		66.221	-5.239	81.464	1.00 20.02
			LEU B		67.963	-3.952	80.845	1.00 22.02
MOTA	4849	N				-4.697	79.614	1.00 19.97
MOTA	4850	CA	LEU B		68.200			
MOTA	4851	CB	LEU B	232	69.192	- 3.942	78.734	1.00 24.99
	4852	CG	LEU B	232	68.665	-2.581	78.263	1.00 29.73
MOTA					69.746	-1.856	77.454	1.00 28.11
MOTA	4853		LEU B			-2.784	77.414	1.00 26.54
ATOM	4854	CD2	LEU B	232	67.409			
MOTA	4855	С	LEU B	232	68.688	-6.119	79.898	_
ATOM	4856	0	LEU B	232	68.365	-7.051	79.162	1.00 19.49
			PHE B		69.468	-6.280	80.962	1.00 20.50
ATOM	4857	N			69.950	-7.599	81.378	1.00 20.70
MOTA	4858	CA	PHE B				82.632	1.00 23.75
MOTA	4859	CB	PHE B	233	70.825	-7.471		
ATOM	4860	CG	PHE B	233	71.217	-8.790	83.239	1.00 28.58
	4861		PHE B		72.285	-9.519	82.731	1.00 30.48
MOTA					70.481	-9.328	84.294	1.00 25.32
MOTA	4862		PHE B				83.262	1.00 31.87
ATOM	4863		PHE B			-10.762		
ATOM	4864	CE2	PHE E	233		-10.573	84.832	1.00 31.26
	4865	CZ	PHE E		71.871	-11.292	84.317	1.00 32.29
ATOM			PHE		68.712	-8.439	81.727	1.00 20.23
MOTA	4866					-9.567	81.270	1.00 21.56
MOTA	4867	0	PHE E		68.553			
ATOM	4868	N	ALA E	234	67.842	-7.878	82.560	
MOTA	4869	CA	ALA E	3 234	66.626	-8.576	82.963	1.00 19.60
		CB	ALA E		65.835	-7.733	83.950	1.00 19.25
MOTA	4870				65.772	-8.898	81.749	1.00 18.87
ATOM	4871	С	ALA E				81.624	1.00 21.91
MOTA	4872	0	ALA E	3 234	65.253			
ATOM	4873	N	LEU E	3 235	65.634	-7.934	80.845	1.00 20.29
	4874	CA	LEU E	_	64.822	-8.141	79.652	1.00 19.53
MOTA					64.773	-6:874	78 ⁻ .795	1.00 24.07
MOTA	4875	CB	LEU E			-6.607	78.024	1.00 27.87
MOTA	4876	CG	LEU E		63.465			1.00 20.77
ATOM	4877	CD1	LEU E	3 235	63.783	-5.813	76.770	
ATOM	4878	CD2	LEU E	3 235	62.761	-7.897	77.664	1.00 26.94
		c	TEILE	3 235	65.376	-9.276	78.795	1.00 20.79
ATOM	4879				64.648	-10.205	78.431	1.00 18.25
MOTA	4880	0	LEU I				78.462	1.00 19.33
ATOM	4881	N	GLU		66.665	-9.191		1 00 17 02
MOTA	4882	CA	GLU I	3 236	67.303		77.629	1.00 27.93
	4883	CB	GLU I	3 236	68.777	-9.853	77.384	1.00 31.06
ATOM				3 236	68.969	-8.597	76.548	1.00 43.60
MOTA	4884	CG ,	GLO	230	70.428		76.259	1.00 45.19
MOTA	4885	CD	GLU I	3 236			75.538	1.00 48.77
ATOM	4886	OE1	GLU !	3 236	70.697	-7.309		
ATOM	4887	OE2	GLU I	B 236	71.300	-9.032	76.751	1.00 52.72
	1888	C	GLH I	B 236	67.20	-11.607	78.209	1.00 24.89
MOTA			CITI	B 236	66.865		77.501	1.00 22.06
ATOM	4889	0				-11.748	79.492	1.00 24.20
ATCM	4890	N		B 237	67.320	-11.740		1.00 27.10
MOTA	4891	CA	LYS 1	B 237		-13.058	80.130	
ATOM	4892	CB	LYS	B 237	67.989	-12.984	81.562 [.]	1.00 23.43
		CG		B 237	69.466	-12.641	81.650	1.00 29.46
ATOM	4893		213	5 227		-13.683	80.924	1.00 31.65
MOTA	4894	CD	. 23د	B 237				1.00 39.70
MOTA	4895	CE		B 237		-13.356	80.993	
ATOM	4896	NZ	LYS	B 237	72.580	-14.363	80.242	1.00 46.74
	4897	c		B 237	66.019	-13.615	80.143	1.00 30.92
ATOM				B 237		-14.766	79.763	1.00 31.42
MOTA	4898	0	-13	221		-12.806	80.573	1.00 25.86
MOTA	4899	"	SER	B 238				1.00 27.98
ATOM	4900	CA		B 238		-13.280	80.620	1.00 27.30
	1901	СВ		B 238	62.776	-12.241	81.289	1.00 23.89
ATOM			CEB	B 238	62.756	-11.028	80.565	1.00 29.27
ATCM	4902	၁၆				-13.642	79.229	1.00 28.32
ATOM	4903	С	SER	B 238	03.143	14 505	79.089	1.00 29.65
				220	62.387	-14.605	17.009	±.00 =2.00
MOTA	4904	0	SER	5 230			70 00-	4 00 27 30
MOTA	4904		SER LEU	B 239		-12.886	78.203	1.00 27.39
ATOM	4904 4905	N	LEU	B 239	63.536		78.203 76.846	1.00 27.39
	4904	N CA	LEU LEU	B 239 B 239 B 239 B 239	63.536 63.079	-12.886		1.00 27.39 1.00 32.52

		CG LEU B 239	62.833	3 -10.772		1.00 36.06
MOTA	4908	CG LEU B 239			74.842	1.00 29.64
MOTA	4909	CD1 LEU B 239		3 -10.976	75.667	1.00 30.73
MOTA	4910	CD2 LEU B 239		3 -14.563	76.430	1.00 34.15
MOTA	4911	C LEU B 239		9 -15.340	75.803	1.00 33.23
MOTA	4912	O LEU B 239		4 -14.859	76.788	1.00 31.39
MOTA	4913	N GLU B 240		4 -16.152	76.472	1.00 33.79
MOTA	4914	CA GLU B 240			77.011	1.00 38.51
ATOM	4915	CB GLU B 240		9 -16.238		1.00 40.56
ATOM	4916	CG GLU B. 240		8 -15.407	76.275	1.00 48.20
ATOM	4917	CD GLU B 240		6 -15.532	76.903	1.00 45.36
MOTA	4918	CE1 GLU B 240		5 -16.679	77.161	1.00 48.21
ATOM	4919	GE2 GLU B 240	69.91	2 -14.492	77.130	
ATOM	4920	C GLU B 240	64.60	4 -17.258	77.108	
ATOM	4921	Q GLU B 240	64.39	1 -18.310	76.510	1.00 32.15
ATOM	4922	N ILE B 241	L 64.14	6 -17.017	78.331	1.00 29.72
MOTA	4923	CA ILE B 243	L 63.32	8 -17.989	79.047	1.00 29.85
ATOM	4924	CB ILE B 24	լ 63.00	6 -17.489	80.466	1.00 30.42
ATOM	4925	CG2 ILE B 24:	L 62.04	9 -18.456	81.162	1.00 29.88
ATOM	4926	CG1 ILE B 24:	1 64.30	9 -17.311	81.254	1.00 29.77
ATOM	4927	CD1 ILE B 24	1 64.11	8 -16.760	82.654	1.00 32.92
ATOM	4928	C ILE B 24	1 62.01	6 -18.247	78.298	1.00 34.65
ATOM	4929	C ILE B 24	1 61.59	2 -19.396	78.149	1.00 30.22
ATOM	4930	N VAL B 24			77.823	1.00 31.16
ATOM	4931	CA VAL B 24	2 60.11		77.105	1.00 34.55
MOTA	4932	CB VAL B 24	2 59.47	6 -15.937	76.825	1.00 30.77
ATOM	4933	CG1 VAL B 24	2 58.19	1 -16.113	76.038	1.00 32.18
ATOM	4934	CG2 VAL B 24	2 59.20	1 -15.214	78.140	1.00 31.57
ATOM	4935	C VAL B 24	2 60.32	0 -18.042	75.787	1.00 36.56 1.00 33.93
ATOM	4936	O VAL B 24	2 59.57		75.453	
MOTA	4937	N LYS B 24	-	7 -17.627	75.042	1.00 38.64 1.00 44.36
ATOM	4938	CA LYS B 24	3 61.65		73.760 73.214	1.00 48.33
ATOM	4939	CB LYS B 24	3 62.96			1.00 53.88
ATOM	4940	CG LYS B 24	3 62.81			1.00 53.72
MOTA	4941	CD LYS B 24	3 62.18			1.00 54.69
ATOM	4942	CE LYS B 24		_		1.00 57.75
MOTA	4943	NZ LYS B 24				1.00 43.21
MOTA	4944	C LYS B 24				1.00 42.92
MOTA	4945	O LYS B 24	·	12 -20.257		1.00 45.77
MOTA	4946	: GLU B 24		28 -21.687		1.00 47.72
ATOM	4947	CA GLU B 24				1.00 50.89
MOTA	4948	CB GLU B 24	· -			1.00 57.16
MOTA	4949					1.00 57.74
MOTA	4950		· -			1.00 60.18
ATOM	4951	OE1 GLU B 24	•	49 -24.308		1.00 61.59
MOTA	4952			12 -22.507	75.505	1.00 47.78
MOTA	4953	O GLU B 24		76 -23.736	75.544	1.00 51.39
ATOM	4954 4955	N VAL B 24		00 -21.851	75.805	1.00 43.31
MOTA	4956	CA VAL B 24	59.0	19 -22.589	76.230	1.00 43.55
ATOM	4957	CB VAL B 24	15 58.8	67 -22.514	1 77.771	1.00 45.89
ATOM	4958	CG1 VAL B 24	57.6	65 -23.322	78.231	
ATOM	4959	CG2 VAL B 2	15 60.1	31 -23.040	78.435	
ATOM	1960	C VAL B 24	15 57.7	27 -22.119	75.565	
ATOM	4961	O VAL B 24	15 56.6	59 -22.67	5 75.798	1.00 39.36
MOTA	4962	PHE B 24	16 57.8	14 -21.10	1 74.716	
MOTA	4963	CA PHE B 2	46 56.6	10 -20.60	2 74.077	
MOTA MOTA	4964	CB PHE B 2	46 55.9	86 -19.51	7 74.958	
	4965	^	46 54.5	42 -19.23	0 74.644	
MOTA MOTA	4966	CD1 PHE B 2	46 53.5	48 -20.14	2 74.989	1.00 27.72
ATOM	4967	CD2 PHE B 2	46 54.1	74 -18.04	8 74.003	
ATOM	1968	CE1 PHE B 2	46 52.3	07 -19.87	8 74.704	
ATOM	4969	CE2 PHE B 2	46 52.8	36 -17.77	3 73.713	
ATOM	4970	CE PHE B 2	46 51.8	350 -18.68	9 74.065	
ATOM	4971	C PHE B 2		04 -20.04		
ATOM	4972	D PHE B 2		40 -19.15		
ATOM	4973	I GLU B 2	4/ 56.4	205 -20.56		, 1.00

					56 363	-20 127	70.296	1.00 4	0 73
ATOM	4974	CA	GLU B	247		-20.137			
ATOM	4975	CB	GLU B	247	56.518	3 -21.347	69.370	1.00 4	13.38
	4076		GLU B		56 670	-22.702	70.073	1.00 5	1.49
ATOM	4976	CG					70.718		5.29
ATOM	4977	CD		247		-23.214			
ATOM	4978	OE1	GLU B	247	54.88	7 -22.601	71.691	1.00 4	19.08
					54 859	-24.246	70.241	1.00 6	50.95
ATOM	4979	OEZ	GLU B	241				1.00 3	
MOTA	4980	С	GLU B	247	55.090	-19.379	69.939		
	4981	ō	GLU B	247	54.129	-19.960	69.436	1.00 3	39.49
ATOM						-18.064	70,182	1.00 3	15 13
MOTA	4982	N	PRO B						
MOTA	4983	CD	PRO B	248	56.18	3 -17.270	70.733		33.57
			PRO B		53 93	5 -17.188	69.916	1.00 3	36.03
MOTA	4984	CY							35.33
MOTA	4985	CB	PRO B	248		5 -15.878	70.562		
	4986	CG	PRO B		55.84	1 -15.880	70.233	1.00 3	32.85
MOTA						3 -16.990	68.457	1.00 3	33.44
ATOM	4987	С	PRO B						29.38
MOTA	4988	0	PRO B	248		7 -16.808	67.604		
	4989	N	GLU. B		52.26	3 -17.012	68.182	1.00 3	32.23
MOTA						3 -16.782	66.828	1.00 2	29.35
MOTA	4990	CA	GLU B						31.87
MOTA	4991	CB	GLU B	249	50.37	4 -17.366	66.645		
	4992	CG	GLU B		50.28	4 -18.867	66.787	1.00 2	28.64
ATOM						7 -19.338	66.747	1.00	33.37
MOTA	4993	CD	GLU B						
ATOM	4994	OE1	GLU B	249	48.06	9 -18.917	67.630	1.00	
	4995	OE2		249	48.49	4 -20.115	65.835	1.00	37.71
MOTA						0 -15.273	66.650	1.00	28.25
MOTA	4996	С	GLU B	249					
MOTA	4997	0	GLU B	249	51.77	6 -14.765	65.537		21.47
			VAL B		51.56	1 -14.564	67.768	1.00	21.77
MOTA	4998	N					67.756	1.00	21 41
ATOM	4999	CA	VAL B			9 -13.110			
ATOM	5000	CB	VAL B	250	50.02	7 -12.676	67.357	1.00	
			VAL B		49 03	7 -13.196	68.378	1.00	20.96
ATOM	5001	CG1			49.93		67.243	1.00	
MOTA	5002	CG2	VAL B	250					
ATOM	5003	С	VAL B	250	51.75	7 -12.608	69.168	1.00	
			VAL B		51.59	2 -13.354	70.133	1.00	18.00
ATOM	5004	0					69.295	1.00	20 28
MOTA	5005	И	TYR B		52.20			1.00	20.20
ATOM	5006	CA	TYR B	251	52.48	1 -10.823	70.620	1.00	
			TYR B	251	53 95	6 -11.043	70.999	1.00	20.67
MOTA	5007	ĊВ	IIK	231			70.427		21.89
ATOM	5008	CG	TYR B	52T	54.94				
ATOM	5009	CD1	TYR B	251	55.19	8 -8.834	71.072		19.31
				251	56.12	9 -7.922	70.562	1.00	23.73
MOTA	5010	CE1					69.254	1 00	18.72
ATOM	5011	CD2	TYR B			1 -10.321			
MOTA	5012	CE2	TYR B	251	56.58	0 -9.417	68.734		22.71
			TYR B	251	56.81	3 -8.220	69.390	1.00	27.33
MOTA	5013	CZ	TIKE	231			68.865	1 00	23.18
ATOM	5014	oh	TYR E	251	57.70	=			
MOTA	5015	С	TYR E	251	52.13	4 -9.349	70.732		25.71
			TYR E	251	52.09	5 -8.622	69.728	1.00	20.14
ATOM	5016	0	IIK E	251					21.13
MOTA	5017	N	LEU E	252	51.83				
ATOM	5018	CA	LEU E	252	51.53	3 -7.532	72.252		24.61
		CB	LEU E		50.15	4 -7.373	77.897	1.00	22.88
MOTA	5019				48.91		1.996		23.73
ATOM	5020	CG	LEU E	252					
ATOM	5021	CD1	LEU E	252	48.77			1.00	23.18
		CD3	LEU E	252	47.69	7 -7.119	72.833	1.00	29.06
MOTA	5022			222				1 00	24.77
ATOM	5023	С	LEU E		52.61				
ATOM	5024	0	LEU E	252	53.06	4 -7.797	74.076		23.33
			LEU E	253	53.01	.1 -5.786	73.071	1.00	20.14
ATOM	5025	N	LEU E	, ,,,		-		1 00	20.33
MOTA	5026	CA	LEU E	253	54.05				
ATOM	5027	CB	LEU E	253	55.30	4 -4.946	73.051		15.18
			LEU E	253	56.49		73.688	1.00	18.34
MOTA	5028	CG							14.11
ATOM	5029	CD1	LEU E	3 253	57.00				
	5030	CD2		253	57.5	52 - 3.953	72.624		19.60
MOTA					53.5			1.00	20.54
ATOM	5031	С	LEU E					1 00	22.80
ATOM	5032	O	LEU E	253	53.20			1.00	22.00
	5033	N	GLN I		53.49	95 -3.858	75.865	1.00	20.37
ATOM					53.0			1.00	21.77
atom	5034	CA	GLN P					1 00	17.85
ATOM	5035	CB	GLN I	3 254	52.1			1.00	17.00
	5036	CG	GLN I		52.7	24 -2.815	79.124	1.00	32.51
ATOM					52.5			1.00	28.19
ATOM	5037	CD	GLN I						
ATCM	5038	OE1	L GLN I	3 254	51.5			1.00	
			GLN I		53.6	03 -0.619	79.432	1.00	16.80
ATOM	5039	4 4					•		

								1 00 20 15
ATOM	5040	C GI	N B	254	54.211	-1.793	76.887	1.00 20.15 1.00 20.11
ATOM	5041	O GI	N B	254	55.186	-2.254	77.497.	
ATOM	5042	N LE	EU B	255	54.146	-0.532	76.468	1.00 19.46
ATOM	5043	CA LE	EU B	255	55.268	0.386	76.614	1.00 15.99
ATOM	5044		EU B		55.692	0.831	75.211	1.00 18.15
	5045			255	56.143	-0.316	74.296	1.00 21.80
MCTA	5045			255	56.215	0.159	72.850	1.00 16.70
MCTA		CD2 LI			57.501	-0.843	74.771	1.00 13.76
ATOM	5047	CD2 L1	EU B	255	55.083	1.614	77.492	1.00 21.41
ATOM	5048	C LI	EU B	255	55.379	2.741	77.065	1.00 18.40
ATCM	5049	O LI	LY B	255	54.618	1.408	78.718	1.00 16.80
ATOM	5050		LY B		54.456	2.519	79.634	1.00 19.90
ATOM	5051	CA GI	LY B	256	55.816	3.181	79.818	1.00 17.68
atom	5052	C GI	LY B	256	56.854	2.514	79.841	1.00 13.96
MOTA	5053			257	55.824	4.497	79.936	1.00 19.55
MOTA	5054		HR B	257	57.081	5.205	80.098	1.00 19.47
MOTA	5055			257	57.044	6.547	79.340	1.00 21.49
ATOM	5056			257	55.989	7.365	79.858	1.00 17.43
MCTA	5057			257	56.780	6.311	77.850	1.00 22.49
ATOM	5058		HR B		57.440	5.466	81.564	1.00 20.75
ATOM	5059	C T		257	58.480	5.054	81.843	1.00 25.01
MOTA	5060	0 T	HR B SP B	237	56.618	5.004	82.504	1.00 17.23
ATOM	5061	N A	SP B	200	56.929	5.277	83.906	1.00 17.42
ATOM	5062	CA A	SP B	250	55.744	4.940	84.846	1.00 12.75
ATOM	5063	CB A	SP B	230	55.197	3.524	84.676	1.00 21.60
ATOM	5064		SP B	250	58.245	4.718	84.460	1.00 16.09
MOTA	5065	C A	SP B	250	58.667	5.116	85.542	1.00 22.07
ATOM	5066		SP B SP B		55.901	2.642	84.150	1.00 17.74
ATOM	5067	OD1 A	SP B	250	54.041	3.281	85.109	1.00 18.68
ATOM	5068		RO B		58.879	3.746	83.779	1.00 20.98
ATOM	5069	N P	RO B	259	58.474	2.901	82.641	1.00 17.75
MOTA	5070 5071		RO B		60.154	3.257	84.321	1.00 22.63
ATOM	5072		RO B		60.395	1.988	83.506	1.00 23.46
atom atom	5073		RO B		59.800	2:343	82.199	1.00 27.08
ATOM	5074		RO B		61.305		84.172	1.00 23.86
ATOM	5075		RO B		62.406	4.082	84.698	1.00 24.24
ATOM	5076		EU B		61.054	5.387	83.465	1.00 20.49
ATOM	5077		EU B		62.080		83.262	1.00 15.17
ATOM	5078	CB I	LEU B	260	61.626		82.185	1.00 17.03 1.00 16.02
ATOM	5079	CG I	LEU B	260	61.431		80.760 79.901	1.00 10.02
ATOM	5080		LEU E		60.703		80.163	1.00 17.53
ATOM	5081		LEU E		62.803		84.541	1.00 22.45
MOTA	5082		LEU E		62.449		85.412	1.00 17.84
MOTA	5083	0 1	LEU E	3 260	61.611		84.635	1.00 22.90
ATOM	5084			261	63.713			
MOTA	5085	CA I	LEU E	3 261	64.219 65.605		85.473	1.00 20.58
ATOM	5086			3 261	66.180		86.553	1.00 28.44
ATOM	5087			3 261	66.481		87.812	1.00 29.84
ATOM	5088	CD1 I	LEU E	3 261	67.462		86.057	1.00 32.10
ATOM	5089		LEU :	3 261	63.315		86.227	
ATOM	5090			3 261	62.978			
ATOM	5091			3 261 3 262	62.934			1.00 23.33
ATOM	5092			3 262 3 262	62.126			1.00 23.38
ATOM	5093	C A .	CIII I	B 262	62.115			1.00 23.17
MOTA	5094			B 262	63.503	·		1.00 28.98
ATOM	5095		CIU I	B 262	64.179			1.00 32.26
ATOM	5096	CD	י טעט מוזי יי	B 262	63.70		82.838	1.00 29.28
ATOM	5097		CIII I	B 262	65.20			1.00 25.42
ATOM	5098		GEU I	B 262	60.69		_	1.00 23.25
ATOM	5099 5100		GLU :	B 262	60.01			1.00 27.63
ATOM	5100			B 263	60.21		. 85927	
ATOM	5102			B 263	58.84	9.751		
ATOM ATOM	5102			B 263	58.21			
ATOM	5104			B 263	56.71	0 8.543		
ATOM	5105			B 263	55.99	5 8.318	84.656	1.00 21.82

3 TOM	5106	002	ASP B	263	56.239	8.666	86.811	1.00 18.31
MOTA				262	58.834	9.339	87.814	1.00 26.39
MOTA	5107	С	ASP B	203				
ATOM	5108	0	ASP B	263	59.437	8.335	88.179	1.00 22.11
			TYR B		58.155	10.124	88.648	1.00 25.81
MOTA	5109	N					90.084	1.00 30.96
MOTA	5110	CA	TYR B		58.101	9.864		
ATOM	5111	CB	TYR B	264	57.511	11.055	90.841	1.00 36.80
					58.241	12.356	90.645	1.00 46.58
MOTA	5112	CG	TYR B					1.00 47.03
MOTA	5113	CD1	TYR B	264	57.981	13.166	89.542	
	5114.	CE1	TYR B		58.654	14.370	89.364	1.00 50.25
MOTA						12.779	91.565	1.00 50.94
MOTA	5115	CD2	TYR B		59.197			
MOTA	5116	CE2	TYR B	264	59.876	13.977	91.396	1.00 51.28
		CZ	TYR B	264	59.600	14.769	90.297	1.00 52.21
ATOM	5117					15.961	90.142	1.00 49.65
MOTA	5118	ОН	TYR B	264	60.268			
MOTA	5119	С	TYR B	264	57.340	8.628	90.525	1.00 31.04
			TYR B	264	57.514	8.181	91.657	1.00 24.50
MOTA	5120	0				8.074	89.666	1.00 26.68
MOTA	5121	N	LEU B	265	56.491			
ATOM	5122	CA	LEU B	265	55.744	6.900	90.086	1.00 24.17
	-		LEU B	265	54.371	6.838	89.390	1.00 24.69
MOTA	5123	CB					89.761	1.00 26.00
ATOM	5124	CG	LEU B	265	53.415	7.982		
	5125	CD1	LEU B	265	51.970	7.583	89.460	1.00 22.21
MOTA				265	53.530	8.281	91.238	1.00 29.31
ATOM	5126	CD2					89.948	1.00 25.83
MOTA	5127	С	LEU B	265	56.478	5.568		
MOTA	5128	0	LEU B	265	55.848	4.512	89.908	1.00 21.74
			SER B	266	57.808	5.618	89.867	1.00 23.30
MOTA	5129	N						1.00 20.75
MOTA	5130	CA	SER B	266	58.608	4.398	89.813	
	5131	CB	SER B	266	58.820	3.900	88.378	1.00 19.67
MOTA					59.863	4.615	87.739	1.00 18.11
ATOM	5132	OG						1.00 23.01
ATOM	5133	С	SER B	266	59.963	4.710	90.420	
	5134	0	SER B	266	60.437	5.845	90.345	1.00 17.74
MOTA	_		LYS B		60.590	3.707	91.023	1.00 24.25
MOTA	5135	N					91.613	1.00 23.79
MOTA	5136	CA	LYS B	267	61.905	3.916		
	5137	CB	LYS B	267	62.027	3.153	92.929	1.00 23.71
ATOM			LYS B	267	60.989	3.582	93.960	1.00 27.29
MOTA	5138	CG	LIS D	207			94.207	1.00 30.33
MOTA	5139	CD	LYS B	267	61.059	5.088		
ATOM	5140	CE	LYS B	267	60.067	5.535	95.273	1.00 30.90
				267	60.155	7.004	95.509	1.00 33.37
MOTA	5141	NZ				3.483	90.634	1.00 26.41
ATOM	5142	С	LYS B	267	62.990			
ATOM	5143	0	LYS B	267	64.153	3.317	91.016	1.00 25:33
			PHE B		62.595	3.288	89.375	1.00 22.18
MOTA	5144	Ŋ				2.919	88.318	1.00 22.78
ATOM	5145	CA	PHE B	268	63.529			
ATOM	5146	CB	PHE B	268	62.814	2.171	87.179	1.00 20.55
			PHE B		62.389	0.761	87.526	1.00 19.23
MOTA	5147	CG	_			-0.025	86.585	1.00 20.72
ATOM	5148	CD1	PHE B	268	61.722			
MOTA	5149	CD2	PHE B	268	62.673	0.207	88.773	
	5150	CE1			61.344	-1.336	86.875	1.00 18.83
ATOM						-1.105	89.073	1.00 20.05
ATOM	5151	CE2	PHE B		62.300		00.075	1.0' 19.70
ATOM	5152	CZ	PHE B	268	61.634	-1.879	88.122	
	5153	c	PHE B	268	64.114	4.222	87.785	1.00 23.66
ATOM					63.412	5.232	87.692	1.00 19.40
ATOM	5154	0	PHE B					1.00 21.96
ATOM	5155	N	ASN B	269	65.396	4.203	87.437	
	5156	CA	ASN B		66.060	5.396	86.926	1.00 25.04
ATOM					67.243	5.783	87.824	1.00 25.68
ATOM	5157	CB	ASN B	209				1.00 27.04
ATOM	5158	CG	ASN B	269	66.845	5.946	89.273	
	5159		ASN E	269	65.832	6.557	89.579	1.00 28.81
MOTA				260	67.659	5.419	90.176	1.00 31.12
ATCM	5160	ND2	ASN E	207				1.00 25.87
MOTA	5161	С	ASN E	269	66.579	5.151	85.523	1.00 23.07
	5162	ō	ASN E	269	67.769	5.336	85.268	1.00 24.58
ATOM				270	65.695	4.757	84.611	1.00 21.37
ATOM	5163	N	LEU E					1.00 16.35
ATOM	5164	CA.	LEU E	3 270	66.116	4.462	83.241	
-		CB	LEU E		65.176	3.426	82.610	1.00 24.12
ATOM	5165				64.909	2.144	83.412	1.00 27.89
ATOM	5166	CG	LEU B					1.00 23.01
ATOM	5167	CD:	LEU E	3 270	64.181	1.136	82.515	
		CD.	LEU E	3 270	66.221	1.547	83.904	1.00 23.92
ATOM	5168				66.184		82.337	1.00 20.06
MOTA	5169	C	LEU E					1.00 16.34
ATOM	5170	0	LEU E	3 270	65.654		82.663	
	5171	11		3 271	66.839	5.497	81.193	1.00 20.07
ATOM	3411	••	J-11 L				•	

					000	6 546	80.200	1.00 21.20
ATOM	5172	CA	SER B		66.989	6.546		1.00 21.20
MOTA	5173	CB	_	271	68.437	6.621	79.714	
MOTA	5174	OG	SER B	271	68.772	5.485	78.921	1.00 21.47
ATOM	5175	С	SER B	271	66.106	6.228	79.000	1.00 22.83
ATOM	5176	ō	SER B		65.631	5.102	78.854	1.00 16.12
	5177	N		272	65.916	7.238	78.154	1.00 20.84
ATOM					65.152	7.156	76.906	1.00 27.82
MOTA	5178	CA		272		8.478	76.123	1.00 30.30
MOTA	5179	CB		272	65.263			
MOTA	5180	CG		272	64.198	9.456	76.475	
MOTA	5181	OD1	ASN B	272	64.167	10.575	75.946	1.00 37.72
ATOM	5182	ND2	ASN B	272	63.299	9.052	77.360	1.00 41.69
ATOM	5183	С	ASN B	272	65.701	6.088	75.974	1.00 26.88
ATOM	5184	ō		272	64.967	5.280	75.412	1.00 23.12
	5185	N		273	67.012	6.160	75.774	1.00 20.40
ATOM	5186	CA	VAL B		67.745	5.260	74.899	1.00 27.34
MOTA				273	69.225	5.705	74.805	1.00 30.40
MOTA	5187	CB			70.036	4.691	74.029	1.00 34.98
ATOM	5188			273		7.057	74.115	1.00 33.57
MOTA	5189		VAL B		69.299		75.343	1.00 24.23
ATOM	5190	С	VAL B		67.664	3.812		
MOTA	5191	0	VAL B	273	67.590	2.913	74.513	-
MOTA	5192	N		274	67.690	3.580	76.648	1.00 20.96
ATOM	5193	CA	ALA B	274	67.589	2.220	77.151	1.00 18.12
ATOM	5194	CB	ALA B		67.858	2.195	78.646	1.00 19.09
ATOM	5195	C	ALA B		66.172	1.729	76.863	1.00 18.23
ATOM	5196	ō	ALA B		65.962	0.567	76.525	1.00 20.77
	5197	N	PHE B		65.207	2.631	77.003	1.00 18.50
ATOM	5198		PHE B		63.802	2.310	76.761	1.00 21.25
ATOM		CA	PHE B		62.941	3.546	77.037	1.00 22,24
ATOM	5199	CB		275	61.466	3.303	76.921	1.00 24.72
ATOM	5200	CG			60.815	2.483	77.826	1.00 23.64
ATOM	5201	CD1	PHE B				75.907	1.00 27.31
MOTA	5202	CD2		275	60.732	3.893	77.722	1.00 27.82
ATOM	5203	CE1		275	59.450	2.254		1.00 27.62
MOTA	5204	CE2	PHE B		59.365	3.670	75.795	1.00 27.82
ATOM	5205	CZ		275	58.727	2.851	76.701	
MOTA	5206	C	PHE B	275	63.642	1.860	75.305	1.00 24.47
ATOM	5207	0	PHE B	275	63.045	0.821	75.030	1.00 22.68
ATOM	5208	N	LEU B	276	64.183	2.648	74.378	1.00 23.85
ATOM	5209	CA	LEU B	276	64.128	2.330	72.946	1.00 21.28
ATOM	5210	CB		276	64.814	3.421	72.134	1.00 19.87
ATOM	5211	CG	LEU B	276	65.114	3.132	70.662	1.00 24.94
ATOM	5212			276	63.818	2.852	69.936	1.00 24.81
MOTA	5213	CD2		276	65.840	4.312	70.018	1.00 21.01
	5214	c	LEU B		64.841	1.021	72.653	1.00 22.33
MOTA	5215	Ö		276	64.348	0.191	71.886	1.00 20.73
ATOM	5215	N	LYS B		66.011	0.857	73.261	1.00 20.72
ATOM			LYS 3		66.823	-0.335	73.076	1.00 24.36
MOTA	5217	CA	LYS B		68.086	-0.239	73.938	1.00 27.37
MOTA	5218	CB			69.303	-0.973	73.381	1.00 35.58
ATOM	5219	CG	LYS 3				73.188	1.00 43.87
ATOM	5220	CD	LYS B		69.061	-2.456	72.580	1.00 44.87
MOTA	5221	CE	LYS B		70.283	-3.137		1.00 49.66
ATOM	5222	NZ	LYS B		70.616	-2.586	71.230.	
ATOM	5223	С	LYS B	277	66.000	-1.554	73.482	1.00 24.22
ATOM	5224	0	LYS B	277	65.987	-2.568	72.777	1.00 19.90
MOTA	5225	N	ALA B	278	65.319	-1.454	74.624	1.00 22.32
ATOM	5226	CA	ALA B	278	64.476	-2.544	75.114	1.00 21.71
ATOM	5227	CB	ALA B		63.752	-2.117	76.381	1.00 17.34
	5228	č	ALA B		63.459	-2.896	74.031	1.00 22.68
ATOM	5229	o	ALA B		63.231	-4.068	73.723	1.00 19.27
ATOM			PHE B		62.849	-1.862	73.464	1.00 24.79
ATOM	5230	N	PHE B		61.860	-2.014	72.398	1.00 22.74
ATOM	5231	CA			61.395	-0.629	71.955	1.00 22.46
ATOM	5232	CB	PHE B			-0.640	70.778	1.00 22.62
ATOM	5233	CG	PHE B		60.467	-1.182	70.882	1.00 21.74
MOTA	5234		PHE B		59.196		69.567	1.00 26.07
ATOM	5235		PHE B		60.862	-0.078		1.00 27.02
ATOM	5236		PHE B		58.325	-1.162	69.799	1.00 27.02
ATOM	5237	CE2	PHE B	279	60.001	-0.051	68.476	1.00 23.37

					58.727	0 504	68.592	1.00 25.13
ATOM	5238	CZ	PHE B 2			-0.594		1.00 23.13
MOTA	5239	С	PHE B 2	79	62.472	-2.768	71.212	1.00 23.60
				79	61.866	-3.697	70.678	1.00 26.54
MOTA	5240	0					70.804	1.00 21.93
ATOM	5241	N	ASN B 2	80	63.67 7	-2.376		
MOTA	5242	CA	ASN B 2	30	64.318	-3.046	69.680	1.00 23.70
					65.520	-2.248	69.164	1.00 22.63
MOTA	5243	CB		80				_
MOTA.	5244	CQ	ASN B 2	80	65.107	-0.937	68.505	
	5245			80	64.094	-0.878	67.796	1.00 25.81
MOTA		ODI			65.900	0.112	68.714	1.00 26.54
MOTA	5246	ND2	ASN B.2	30				
MOTA	5247	С	ASN B 2	90	64.746	-4.466	70.009	1.00 26.10
				80 -	64.775	-5.321	69.124	1.00 26.16
MOTA	5248	0					71.272	1.00 26.10
ATOM	5249	N		81	65.080	-4.724		
MOTA	5250	CA	ILE B 2	31	65.485	-6.067	71.667	1.00 25.81
				31	66.006	-5.098	73.124	1.00 28.50
MOTA	5251	CB			_	-7.527	73.648	1.00 28.53
ATOM	5252	CG2	ILE B 2		66.046			
MOTA	5253	CG1	ILE B 2	81	67.392	-5.454	73.173	1.00 32.07
					68.038	-5.442	74.541	1.00 28.24
ATOM	5254	CD1			64.320	-7.030	71.507	1.00 25.77
MOTA	5255	С	ILE B 2	81				
MOTA	5256	0	ILE B 2	31	64.484	-8.131	70.982	1.00 23.39
	5257	N	VAL B 2		63.139	-6.618	71.950	1.00 21.30
MOTA					61.961	-7.465	71.813	1.00 22.90
MOTA	5258	CA		82				
ATOM	5259	CB	VAL B 2	82	60.703	-6.775	72.387	1.00 24.07
	5260			82	59.464	-7.611	72.093	1.00 22.28
ATOM					.60.865	-6.587	73.906	1.00 26.89
MOTA	5261		VAL B 2	02				1.00 23.87
MOTA	5262	С	VAL B 2	82	61.718	-7,795	70.339	
	5263	ō		32	61.462	-8.949	69.978	1.00 22.65
ATOM					61.799	-6.779	69.488	1.00 23.19
MOTA	5264	N		33				1.00 27.95
ATOM	5265	CA	ARG B 3	283	61.576	-6.971	6B.060	
	5266	CB		83	61.510	-5.612	67.359	1.00 25.48
ATOM					60.337	-4.760	67.838	1.00 26.55
MOTA	5267	ÇG	ARG B 2					1.00 31.52
ATOM	5268	CD	ARG B 2	283	60.442	-3.333	67.339	
	5269	NE		283	60.210	-3.208	65.908	1.00 24.43
ATOM			_		60.915	-2.414	65.116	1.00 26.45
ATOM	5270	CZ		283				1.00 26.04
ATOM	5271.	NH1		283	61.902	-1.676	65.622	1.00 20.04
	5272	NH2	ARG B	283	60.634	-2.356	63.825	1.00 29.64
MOTA					62.634	-7.855	67.402	1.00 32.04
ATOM	5273	С		283				1.00 29.76
MOTA	5274	0	ARG B	283	62.341	-8.552	66.431	
MOTA	5275	N	GLU B 2	284	63.859	-7.821	67.923	1.00 31.50
			GLU B		64.934	-8.646	67.381	1.00 32.42
ATOM	5276	CA					67.992	1.00 38.31
ATOM	5277	ÇВ	GLU B	284	66.289	-8.260		
ATOM	5278	CG	GLU B	284	66.798	-6.864	67.640	1.00 48.93
				284	68.102	-6.518	68.362	1.00 56.28
ATCM	5279	CD				-7.281	68.222	1.00 57.37
MOTA	5280	OE1		284	69.084			1 00 55 42
ATOM	5281	OE2	GLU B	284	68.150	-5.485	69.069	1.00 55.42
	5282	C	GLU B	284	64.638	-10.105	67.714	1.00 31.93
MOTA		_			64 999	-11.001	66.913	1.00 28.26
ATOM	5283	O	GLU B	204 				1.00 28.09
ATOM	5284	N	VAL B	285		-10.340	68.901	1.00 20.03
	5285	CA	VAL B		63.765	-11.697	69.325	1.00 30.67
ATOM						-11.802	70.863	1.00 28.33
ATOM	5286	CB	VAL B	465				1.00 29.84
ATOM	5287	CG1	VAL B	285		-13.206	71.262	1.00 25.04
		CG3	VAL B	285	65.037	-11.470	71.478	1.00 26.93
ATOM	5288		VALID	205		-12.265	68.758	1.00 31.19
ATOM	5289	С	VAL B	285				
ATCM	5290	0	VAL B	285		-13.423	68.349	1.00 31.38
			PHE B		61.398	-11.460	68.729	1.00 28.21
ATOM	5291	N				-11.948	68.249	1.00 25.71
MOTA	5292	CA	PHE B					1.00 24.57
ATOM	5293	CB	PHE B	286		-11.853	69.374	1.00 24.57
•			PHE B		59.311	-12.804	70.514	1.00 26.87
ATOM	5294	CG	F112 -	200		-12.331	71.779	1.00 25.16
MOTA	5295	CDI	PHE B	-00				1.00 22.51
ATCM	5296	CD2		196		-14.180	70.319	1.00 22.51
		CEI		236		-13.213	72.833	1.00 22.92
MOTA	5297					-15.063	71.362	1.00 21.99
ATOM	5298	CER						
ATCM	5299	CZ	PHE B	286	59.772	-14.578	72.626	1.00 20.75
		c	PHE B		59.518	-11.318	66993	1.00 25.90
ATOM	5300		rne o	200		-11.630	66.620	
ATOM-	5301	0	PHE 5	280				
ATOM	5302	N	GLY B	287	60.272	-10.451	66.329	
			GLY B	287	59.756		65.130	1.00 23.38
ATOM	5303	CA	ב זעט	÷07	55.750	J. U = 4		-

ATCM	5304	С	GLY B	287	58.765	-8.719	65.498	1.00 29.17
			GLY B		58.786	-8.216	56.517	1.00 22.88
ATCM	5305	0						1.00 26.77
ATCM	5306	N	GLU B	288	57.896	-8.361	64.558	
			GLU B		56.893	-7.324	64.754	1.00 25.38
ATOM	5307	CA					63.405	1.00 29.51
MOTA	5308	СB	GLU B	288	56.405	-6.791		
	5309	ĊG	GLU B		57.430	-6.003	62.605	1.00 36.06
ATCM							63.347	1.00 41.10
ATCM	5310	CD	GLU B	288	57.906	-4.769		
	5311	OF1	GLU B	288	57.058	-4.055	63.919	1.00 41.19
ATCM					59.125	-4.503	63.348	1.00 44.69
ATOM	5312	OE2		288				
ATOM	5313	С	-GLU B	288	55.682	-7.819	65.527	1.00 27.87
					55.209	-8.931	65.308	1.00 26.80
MOTA	5314	0		288				1.00 24.53
MOTA	5315	N	GLY B	289	55.176	-6.973	66.419	
		CA	GLY B		54.006	-7.326	67.204	1.00 29.17
ATCM	5316					-6.171	67.244	1.00 30.46
ATCM	5317	C	GLY B		53.015			
	5318	0	GLY B	289	53.005	-5.326	66.358	1.00 26.17
ATOM					52.171	-6.142	68.268	1.00 23.95
ATOM	5319	N	VAL B					
ATCM	5320	CA	VAL B	290	51.194	-5.079	68.440	1.00 22.25
		CB	VAL B		49.794	-5.655	68.783	1.00 18.71
ATOM	5321					-4.525	69.047	1.00 22.67
ATOM	5322	CG1	VAL B	290	48.810			
ATOM	5323	CG2	VAL B	290	49.289	-6.504	67.629	1.00 19.26
			VAL B	200	51.722	-4.232	69.593	1.00 21.55
ATCM	5324	С					70.687	1.00 21.32
MOTA	5325	0	VAL B	290	51.960	-4.741		
	5326	N	TYR B		51.913	-2.941	69.346	1.00 21.06
ATCM						-2.063	70.357	1.00 19.29
ATOM	5327	CA	TYR B		52.479			
	5328	CB	TYR B	291	53.582	-1.216	69.711	1.00 20.40
ATOM					54.553	-2.072	68.918	1.00 23.09
MOTA	5329	CG	TYR B					1.00 19.52
ATOM	5330	CD1	TYR B	291	54.740	-1.875	67.549	
	5331	CE1			55.580	-2.712	66.809	1.00 20.67
ATOM						-3.122	69.527	1.00 22.88
ATOM	5332	CD2	TYR B	291	55.234			
	5333	CE2	TYR B	291	56.070	-3.960	68.800	1.00 26.04
MOTA					56.235	-3.752	67.442	1.00 23.44
ATOM ·	5334	CZ	TYR B					1.00 28.02
ATOM	5335	OH	TYR B	291	57.027	-4.612	66.722	
		C	TYR B	291	51.465	-1.180	71.068	1.00 26.89
ATOM	5336		111 3	201		-0.479	70.429	1.00 20.26
ATOM	5337	0	TYR B		50.668			
ATCM	5338	N	LEU B	292	51.522	-1.204	72.399	1.00 21.75
			LEU B	202	50.604	-0.426	73.227	1.00 22.11
ATOM	5339	CA	7F0 B	292			74.088	1.00 20.92
ATOM	5340	CB	LEU B	292	49.765	-1.369		
	5341	CG	LEU B	292	49.091	-2.542	73.375	1.00 22.94
MOTA					48.328	-3.362	74.411	1.00 21.03
MOTA	5342	CD1						1.00 18.04
ATOM	5343	CD2	LEU B	292	48.149	-2.043	72.281	
		C	LEU B	292	51.330	0.557	74.147	1.00 21.59
ATOM	5344		10 10	222		0.404	74.426	1.00 19.96
ATOM	5345	၁	LEU B	292	52.514			
ATOM	5346	N	GLY B	293	50.606	1.571	74.613	1.00 23.31
			GLY B	203	51.195	2.537	75.521	1.00 20.76
ATOM	5347	CA	GLID	233			76.930	1.00 26.15
ATOM	5348	C	GLY B	293	51.163	1.979		
ATOM	5349	0	GLY B		51.263	0.765	77.133	1.00 20.96
					51.017	2.859	77.914	1.00 24.63
ATOM	5350	N	GLY B	674				1.00 20.00
ATOM	5351	CA	GLY B	294	50.980	2.407	79.293	1.00 20.00
		С	GLY B	294	51.176	3.538	80.285	1.00 22.59
ATOM	5352		GD1 D	204		4.719	79.916	1.00 17.46
ATOM	5353	0	GLY B		51.145			
ATOM	5354	N	GLY B	295	51.373	3.179	81.551	1.00 17.10
					51.577	4.180	82.582	1.00 16.52
ATOM	5355	CA	GLY B					1.00 19.54
ATOM	5356	С	GLY B	295	52.695	5.145	82.232	1.00 13.34
			GLY B	295	53.738	4.737	81.732	1.00 16.31
ATCM	5357	Ö			52.467	6.430	82.497	1.00 21.93
ATOM	5358	N	GLY B	290				
ATCM	5359	CA	GLY B	296	53.448	7.465	82.207	1.00 20.05
			CT 12 D	206	52.869	8.750	82.759	1.00 22.20
ATOM	5360	С	GLY B	250			82.336	1.00 20.48
ATOM	5361	0	GLY B	296	51.790			1.00 20.40
		N	TYR B		53.573	9.402	83.682	1.00 20.93
ATOM	5362		441. 0	307			84.306	1.00 23.25
ATOM	5363	CA	TYR B	29/	53.025			1 00 10 03
	5364	CB	TYR 3	297	52.731	10.284	85.774	1.00 19.93
ATOM			TYR B	297	52.041		85.900	1.00 24.76
ATOM	5365	CG						1.00 21.97
		CD.	1 TYR B	297	52.779		85.936	1.00 21.07
1M	5366	CD:						
ATOM	5366 5367			297	52.148	6.514	85.912	1.00 19.79
ATOM	5367	CE:	1 TYR B	297	-			1.00 20.86
ATOM		CE:	1 TYR B 2 TYR B	297 297	50.653	8.850	85.849	1.00 20.86
	5367	CE:	1 TYR B 2 TYR B	297 297	-	8.850		1.00 20.86

				_				
		C7	TYR B 2	97	50.758	6.457	85.851	1.00 23.85
ATOM	5370	CZ	IIK B 2			5.254	85.806	1.00 17.83
MOTA	5371	OH	TYR B 2	197	50.106			
ATOM	5372	С	TYR B 2	97	53.839	11.877	84.181	1.00 25.22
		ō	TYR B 2	97	53.451	12.925	84.705	1.00 21.77
MOTA	5373	_	111 5 2		54.974	11.794	83.497	1.00 23.21
MOTA	5374	N	HIS B 2					1.00 25.62
ATOM	5375	CA	HIS B 2	98	55.787	12.976	83.270	
	5376	CB	HIS B 2	98	57.270	12.713	83.534	1.00 22.88
ATOM			HIS B 2	100	58.097	13.956	83.502	1.00 25.13
MOTA	5377	CG	H12 B 2	. 90			82.482	1.00 28.22
MOTA	5378	CD2	HIS B 2	298	58.406	14.791		
MOTA	5379	וחמ	HIS B 2	298	58.617	14.536	84.641	1.00 32.76
		CEI	HIS B 2	000	59.209	15.674	84.323	1.00 26.52
ATOM	5380	CEI	n15 b 2	250	59.094	15.852	83.019	1.00 32.15
MOTA	5381	NE2		298				1.00 25.66
ATOM	5382	С	HIS B 2	298	55.589	13.307	81.795	
	5383	ō		298	56.087	12.589	80.923	1.00 25.84
MOTA				299	54.901	14.424	81.496	1.00 27.02
ATOM	5384	N			54.388	15.424	82.447	1.00 29.91
MOTA	5385	CD		299				1.00 26.53
ATOM	5386	CA	PRO B 2	299	54.616	14.864	80.127	
	5387	CB	PRO B 2	299	53.952	16.232	80.342	1.00 27.76
ATOM				299	54.583	16.696	81.656	1.00 27.97
ATOM	5388	CG	PRO B 2	233		14.930	79.194	1.00 27.08
ATOM	5389	С		299	55.815			
ATOM	5390	0	PRO B 2	299	55.738	14.472	78.057	1.00 28.58
	5391	N		300	56.925	15.484	79.668	1.00 27.30
MOTA					58.114	15.593	78.824	1.00 27.17
MOTA	5392	CA		300			79.466	1.00 31.65
ATOM	5393	CB		300	59.173	16.496	79.400	
MOTA	5394	CG	TYR B	300	58.684	17.851	79.921	1.00 31.61
		CD1			57.414	18.318	79.582	1.00 32.71
MOTA	5395				56.971	19.568	80.014	1.00 38.52
MOTA	5396	CE1	TYR B	300				1.00 30.92
MOTA	5397	CD2	TYR B	300	59.499	18.670	80.701	
	5398	CE2			59.072	19.917	.81.138	1.00 32.13
MOTA			TYR B		57.808	20.361	80.795	1.00 39.17
MOTA	5399	CZ				21.585	81.252	1.00 43.90
ATOM	5400	OH	TYR B		57.374			1.00 25.20
ATOM	5401	С	TYR B	300	58.731	14.218	78.572	
	5402	ō	TYR B	300	59.106	13.894	77.445	1.00 25.15
ATOM				301	58.845	13.419	79.628	1.00 20.55
MOTA	5403	N					79.508	1.00 22.12.
MOTA	5404	CA		301	59.414	12.080		1.00 17.09
MOTA	5405	CB	ALA B	301	59.417	11.388	80.874	
		Ċ		301	58.608	11.260	78.505	1.00 15.20
MOTA	5406			301	59.161	10.629	77.613	1.00 17.12
MOTA	5407	0				11.290	78.667	1.00 18.02
MOTA	5408	N	LEU B	302	57.295			
MOTA	5409	CA	LEU B	302	56.381	10.553	77.815	1.00 19.88
	5410	CB		302	54.957	10.702	78.362	1.00 21.72
MOTA				302	53.767	10.118	77.606	1.00 31.08
MOTA	5411	CG				9.980	78.549	1.00 31.35
MOTA	5412	CD1		302	52.576			1.00 27.11
ATOM	5413	CD2	LEU B	302	53.434	11.011	76.415	
	5414	c	LEU B	302	56.445	10.988	76.351	1.00 21.13
ATOM					56.473	10.149	75.449	1.00 21.76
MOTA	5415	0	LEU B	202	56.472	12.293	76.115	1.00 17.69
MOTA	5416	N	ALA B					1.00 17.79
ATOM	5417	CA	ALA B	303	56.516	12.811	74.755	1.00 17.79
	5418	СВ	ALA B		56.357	14.326	74.780	1.00 24.50
MOTA					57.803	12.425	74.040	1.00 20.84
ATOM	5419	С	ALA B			11.968	72.891	1.00 19.33
MOTA	5420	o	ALA B	303	57.781			1.00 21.08
MOTA	5421	N	ARG B	304	58.930	12.594	74.723	
			ARG B	3.04	60.215	12.269	74.120	1.00 25.56
MOTA	5422	CA	720 2	304	61.375	12.825	74.962	1.00 18.37
MOTA	5423	СВ	ARG B				75.072	1.00 23.12
MOTA	5424	CG	ARG B		61.427	14.356		
ATOM	5425	CD	ARG B		62.797	14.758	75.624	1.00 29.00
			ARG B		63.073	13.938	76.789	
ATOM	5426	NE				13.689	77.283	
MOTA	5427	CZ	ARG B	304	64.271			
ATOM	5428	NH:	1 ARG B	304	65.363	14.194	76.723	
		MILI	2 ARG B	304	64.365	12.896	78.333	1.00 36.15
ATOM	5429		ב המונה ב	304	60.406		73.922	1.00 20.46
ATOM	5430	С	ARG B					
ATCM	5431	၁	ARG B		60.850			1 00 22 10
	5432	N	ALA B		60.070		74.937	
ATOM					60.226	8.542	74.845	1.00 19.70
ATOM		CA			59.847			
ATCM	5434	CB				_		
ATOM	5435		ALA B	305	59.407	7.930	/3./11	1.00 15.02

3 0004	5436	O ALA B 305	59.938	7.184	72.888	1.00 19.12
MOTA			58.113	8.230	73.659	1.00 18.65
MOTA	5437		57.298		72.600	1.00 19.57
ATOM	5438	CA TRP B 306				1.00 18.26
ATOM	5439	CB TRP B 306	55.800		72.893	
	5440	CG TRP B 306	55.301	6.911	73.953	1.00 20.71
MOTA			54.087	7.025	74.708	1.00 23.94
ATOM	5441				75.513	1.00 24.73
MOTA	5442	CE2 TRP B 306	53.988	• . • . •		
ATOM	5443	CE3 TRP B 306	53.073	7.991	74.780	1.00 26.01
			55.872	5.721	74.326	1.00 20.04
ATOM	5444		55.092	5.093	75.260	1.00 19.17
ATOM	5445	NE1 TRP B 306		5.655	76.385	1.00 28.04
ATOM	5446	CZ2 TRP B 306	52.912			
ATOM	5447	CZ3 TRP B 306	52.001	7.779	75.646	1.00 28.68
	5448	CH2 TRP B 306	51.930	6.619	76.437	1.00 31.22
MOTA		- 006	57.665	8.223	71.226	1.00 23.48
MOTA	5449	C TRP B 306	57.416.	7.574	70.212	1.00 22.38
MOTA	5450	O TRP B 306			71.176	1.00 22.36
ATOM	5451	N THR B 307	58.262	9.412		
ATOM	5452	CA THR B 307	58.672	9.953	69.880	1.00 25.94
	5453	CB THR B 307	59.143	11.417	69.986	1.00 25.88
MOTA			58.015	12.261	70.258	1.00 21.07
ATOM	5454		59.827	11.864	68.686	1.00 22.52
MOTA	5455	CG2 THR B 307			69.350	1.00 30.09
MOTA	5456	C THR B 307	59.815	9.078		
	5457	O THR B 307	59.922	8.834	68.144	1.00 25.82
ATOM	5458	N LEU B 308	60.564	8.596	70.258	1.00 27.54
MOTA			61.773	7.734	69.857	1.00 26.76
MOTA	5459	CA LEU B 308		7.424	71.054	1.00 24.24
ATOM	5460	CB LEU B 308	62.691			1.00 31.16
ATOM	5461	CG LEU B 308	63.420	8.614	71.718	
	5462	CD1 LEU B 308	64.282	8.147	72.877	1.00 24.71
ATOM		CD2 LEU B 308	64.289	9.325	70.700	1.00 24.59
MOTA	5463		61.184	6.443	69.287	1.00 27.20
MOTA	5464	C LEU B 308		5.961	68.234	1.00 23.52
ATOM	5465	O LEU B 308	61.609			1.00 25.10
ATOM	5466	N ILE B 309	60.190		69.980	
	5467	CA ILE B 309	59.537	4.679	69.530	1.00 25.14
ATOM			58.387	4.266	70.485	1.00 27.05
MOTA	5468		57.646	3.058	69.926	1.00 23.57
MOTA	5469	CG2 ILE B 309		3.947	71.868	1.00 22.98
MOTA	5470	CG1 ILE B 309	58.952			1.00 24.25
ATOM	5471	CD1 ILE B 309	59.92 7	2.793	71.868	
ATOM	5472	C ILE B 309	58.958	4.885	68.133	1.00 25.41
	5473	O ILE B 309	59.177	4.064	67.243	1.00 22.13
MOTA			58.232	5.984	67.943	1.00 27.45
MOTA	5474		57.618	6.266	66.648	1.00 29.27
ATOM	5475	CA TRP B 310			66.715	1.00 27.00
ATOM	5476	CB TRP B 310	56.721	7.505		1.00 28.26
ATOM	5477	CG TRP B 310	56.112	7.847	65.378	
	5478	CD2 TRP B 310	55.172	7.061	64.633	1.00 27.50
MOTA		CE2 TRP B 310	54.947	7.729	63.408	1.00 30.47
ATOM	5479		54.500	5.856	64.877	1.00 29.85
ATOM	5480		56.406	۶.929	64.597	1.00 29.76
MOTA	5481	CD1 TRP B 310		-	63.415	1.00 26.71
ATOM	5482	NEI TRP B 310	55.713	.865		1.00 20.71
ATOM	5483	CZ2 TRP B 310	54.076	.234	62.429	1.00 28.23
	5484	CZ3 TRP B 310	53.636	5.362	63.901	1.00 30.24
ATCM			53.433	6.053	62.692	1.00 27.63
MOTA	5485	CH2 TRP B 310		6.424	65.520	1.00 30.16
ATOM	5486	C TRP B 310	58.629			1.00 30.04
ATOM	5487	O TRP B 310	58.378	5.964	64.410	
ATOM	5488	N CYS B 311	59.762	7.069	65.793	1.00 24.26
		CA CYS B 311	60.782	7.233	64.764	1.00 27.97
ATOM	5489		61.893	8.157	65.252	1.00 28.21
MOTA	5490	CB CYS B 311		9.905	65.381	1.00 33.38
ATOM	5491	SG CYS B 311	61.422			
ATOM	5492	C CYS B 311	61.380	5.886	64.351	
	5493	O CYS B 311	61.670	5.660	63.172	
ATOM			61.570	5.001	65.327	1.00 31.59
MOTA	5494		62.111	3.669	65.067	1.00 33.48
ATOM	5495	CA GLU B 314			66.352	
ATOM	5496	CB GLU B 312	62.142	2.843		
ATOM	5497	CG GLU B 312	63.487	2.307		
	5498	CD GLU B 312	64.171	1.513	65.675	
ATOM			63.539	0.614		1.00 43.69
ATOM	5499		65.358	1.782		
. ATOM	5500					
ATCM	5501	C GLU B 312	61.197	2.959		

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	23456789001123456789011234567890012234567890012234456555555555555555555555555555555555	N A B G T T Z O N A B G O O N A A B G D D E Z H 1 A B G D E Z C C C C C C C C C C C C C C C C C C	GLU B 317 GLU B 317 VAL B 318 VAL B 318 VAL B 318 VAL B 318 VAL B 318		61.640 59.919 58.930 57.571 57.429 56.063 57.595 58.768 58.716 58.498 58.204 59.707 59.632 60.831 62.659 62.059 62.059 63.363 62.089 63.363 62.089 63.363 62.089 63.363 63.908 64.089 65.565 66.108	2.497 2.865 2.203 2.173 1.224 1.434 -0.215 2.866 2.187 4.194 5.006 6.537 5.469 4.515 4.585 4.585 10.798 8.121 9.345 10.753 10.75	63.035 64.438 63.598 64.297 65.477 66.130 64.989 62.248 61.2283 61.0265 62.151 66.337 66.337 66.337 66.337 66.337 66.337 67.358 68.624 69.838	1.00 31.38 1.00 26.70 1.00 26.73 1.00 25.83 1.00 35.18 1.00 32.49 1.00 29.71 1.00 29.03 1.00 30.13 1.00 34.06 1.00 31.84 1.00 31.84 1.00 31.84 1.00 31.81 1.00 37.27 1.00 39.93 1.00 39.79 1.00 39.79 1.00 40.20 1.00 40.20 1.00 40.20 1.00 40.20 1.00 40.20 1.00 40.20 1.00 40.20 1.00 40.20 1.00 40.84 1.00 39.03 1.00 40.84 1.00 39.03 1.00 40.84 1.00 39.58 1.00 43.35 1.00 49.34 1.00 57.04 1.00 62.79 1.00 63.46 1.00 41.58 1.00 39.99 1.00 38.76 1.00 39.99 1.00 39.99 1.00 39.99 1.00 39.99 1.00 39.99 1.00 39.99 1.00 39.99 1.00 39.99
	-		VAL B 318		66.118	10.301		1.00 35.38
ATOM								1.00 42.28
							67.962	1.00 38.26
			VAL B 318		65.287			
MOTA	5546	С	VAL B 318		66.459 67.689	12.370	65.478	1.00 41.82
MOT.	5547		VAL B 318 PRO B 319		65.735	13.491	65.356	1.00 43.18
atom atom	5548 5549	N CD	PRO B 319)	64.290	13.672	65.155	1.00 41.90
ATOM	5550	CA	PRO B 319)	66.402	14.792	65.388 65.181	
MOTA	5551	CB	PRO B 319		65.241 64.079	15.763 15.011	65.795	
MOTA	5552 5553	CG C	PRO B 319	,	67.086	14.965	66.741	1.00 44.62
ATOM ATOM	5554	Ö	PRO B 319)	66.541	14.565	67.771	
MOTA	.5555	N	GLU B 320)	68.277	15.552 15.762	66.735 67.967	
MOTA	5556	CA	GLU B 320)	69.029 70.381	16.406		1.00 50.87
MOTA	5557 5558	CB CG	GLU B 320 GLU B 320)	71.165	16.768	68.919	1.00 53.71
MOTA MOTA	5559				72.455	17.505		
MOTA	5560	ЭE	1 GLU B 320		73.161	17.874 17.714		
MOTA	5561		2 GLU B 320 GLU B 320		72.762 68.311	16.625		1.00 44.42
MOTA	5562 5563		GLU B 320		68.244	16.279	70.168	1.00 42.32
atom atom	\$564		LYS B 32	1	67.778	17.753		
ATOM	5565	CA	LYS B 32	1	67.102	18.672 20.000		
ATOM	5566				67.853 67.890			
MOTA	5567	CG	LYS B 32	.	57.030	20.00-	•	

ATOM 5569 CE LYS B 321 67.936 19.062 66.2 ATOM 5570 NZ LYS B 321 66.738 19.588 65.5 ATOM 5571 C LYS B 321 66.738 19.588 65.5 ATOM 5572 O LYS B 321 65.662 18.971 69.0 ATOM 5573 N LEU B 322 64.947 19.512 70.0 ATOM 5574 CA LEU B 322 63.563 19.885 69.8 ATOM 5575 CB LEU B 322 62.846 20.034 71.2 ATOM 5576 CG LEU B 322 62.846 20.034 71.2 ATOM 5577 CD1 LEU B 322 62.846 20.034 71.2 ATOM 5578 CD2 LEU B 322 62.846 19.175 73.3 ATOM 5579 C LEU B 322 62.861 17.596 71.5 ATOM 5579 CLEU B 322 62.588 17.596 71.5 ATOM 5580 O LEU B 322 62.735 21.473 68.2 ATOM 5581 N ASN B 323 62.735 21.474 69.1 ATOM 5583 CB ASN B 323 62.703 22.771 67.5 ATOM 5584 CG ASN B 323 61.985 22.707 66.2 ATOM 5588 ND2 ASN B 323 60.617 22.085 66.3 ATOM 5588 ND2 ASN B 323 60.43 21.317 65.3 ATOM 5588 ND2 ASN B 323 61.985 22.707 66.2 ATOM 5588 N ASN B 323 61.985 22.707 66.2 ATOM 5589 N ASN B 323 61.949 23.6690 68.5 ATOM 5589 N ASN B 323 61.949 23.6690 68.5 ATOM 5590 CA ASN B 324 61.902 24.973 68.2 ATOM 5591 CB ASN B 324 61.902 24.973 68.2 ATOM 5592 CG ASN B 324 61.902 24.973 68.2 ATOM 5599 C ASN B 324 61.902 24.973 68.2 ATOM 5590 CA ASN B 324 61.902 24.973 68.2 ATOM 5591 CB ASN B 324 61.902 24.973 68.2 ATOM 5595 C ASN B 324 61.902 24.973 68.2 ATOM 5596 O ASN B 324 61.902 24.973 68.2 ATOM 5597 N LYS B 325 57.655 24.892 68.3 ATOM 5596 C ASN B 324 61.089 28.407 69.1 ATOM 5597 N LYS B 325 57.655 24.892 68.3 ATOM 5596 C ASN B 324 62.091 29.111 70.4 ATOM 5590 CB LYS B 325 57.655 24.892 68.3 ATOM 5600 CG LYS B 325 57.655 24.892 68.3 ATOM 5601 CD LYS B 325 57.655 24.892 68.3 ATOM 5600 CG LYS B 325 57.655 24.892 68.3 ATOM 5601 CD LYS B 325 57.655 24.892 68.3 ATOM 5602 CE LYS B 325 57.655 24.892 68.3 ATOM 5600 N ALA B 326 58.098 21.746 70. ATOM 5610 C DLYS B 327 58.500 24.339 72. ATOM 5610 C DLYS B 327 59.689 23.603 73. ATOM 5610 C DLYS B 327 59.689 23.603 73. ATOM 5610 C DLYS B 327 59.689 23.603 73. ATOM 5610 C DLYS B 327 59.689 23.603 73. ATOM 5610 C DLYS B 327 59.689 23.603 73. ATOM 5610 C DLYS B 327 59.699 23.603 73. ATOM 5610 C DLYS B 327 59.699 23.603 73. ATOM 5610				
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ATOM 5623 CG GLU B 328 57.835 28.742 73 ATOM 5624 CD GLU B 328 56.949 29.317 74 ATOM 5625 OE1 GLU B 328 59.029 28.680 73 ATOM 5626 OE2 GLU B 328 59.029 28.680 73 ATOM 5627 C GLU B 328 55.569 25.087 73 ATOM 5628 C GLU B 328 54.794 25.377 74 ATOM 5629 N LEU B 329 54.429 23.999 73 ATOM 5630 CA LEU B 329 54.349 23.056 73 ATOM 5631 CB LEU B 329 54.404 21.900 72			72.258	4.80
ATOM 5624 CD GLU B 328 57.835 28.742 73 ATOM 5625 OE1 GLU B 328 56.949 29.317 74 ATOM 5626 OE2 GLU B 328 59.029 28.680 73 ATOM 5627 C GLU B 328 55.569 25.087 73 ATOM 5628 C GLU B 328 54.794 25.377 74 ATOM 5629 N LEU B 329 55.429 23.999 73 ATOM 5630 CA LEU B 329 54.349 23.056 73 ATOM 5631 CB LEU B 329 54.404 21.900 72	ATOM		73.569	
ATOM 5625 CE1 GLU B 328 56.949 29.317 74 ATOM 5626 OE2 GLU B 328 59.029 28.680 73 ATOM 5627 C GLU B 328 55.569 25.087 73 ATOM 5628 C GLU B 328 54.794 25.377 74 ATOM 5629 N LEU B 329 55.429 23.999 73 ATOM 5630 CA LEU B 329 54.349 23.056 73 ATOM 5631 CB LEU B 329 54.404 21.900 72		_		
ATOM 5626 OE2 GLU B 328 59.029 28.680 73 ATOM 5627 C GLU B 328 55.569 25.087 73 ATOM 5628 C GLU B 328 54.794 25.377 74 ATOM 5629 N LEU B 329 55.429 23.999 73 ATOM 5630 CA LEU B 329 54.349 23.056 73 ATOM 5631 CB LEU B 329 54.404 21.900 72			74.237	
ATOM 5627 C GLU B 328 55.569 25.087 73 ATOM 5628 C GLU B 328 54.794 25.377 74 ATOM 5629 N LEU B 329 55.429 23.999 73 ATOM 5630 CA LEU B 329 54.349 23.056 73 ATOM 5631 CB LEU B 329 54.404 21.900 72			73.935	
ATOM 5627 C GLU B 328 54.794 25.377 74 ATOM 5628 C GLU B 328 55.429 23.999 73 ATOM 5630 CA LEU B 329 54.349 23.056 73 ATOM 5631 CB LEU B 329 54.404 21.900 72		39 1.00 38.6	73.839	8.67
ATCM 5628 O GLU B 329 55.429 23.999 73 ATCM 5630 CA LEU B 329 54.349 23.056 73 ATCM 5631 CB LEU B 329 54.404 21.900 72				
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TCM 5632 CG EEU S 323 51 050 21 430 72	ATOM	· · · · · · · · · · · · · · · · · · ·		
ATOM 5633 CD1 LEU B 329 51.958 21.430 /2			413	
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ATOM 5614 CD LEU B 329									
ATOM 5635 C LEU B 329 54.504 22.507 74.747 1.00 34.07 ATOM 5636 C LEU B 330 55.640 21.873 75.013 1.00 32.74 ATOM 5637 N LEU B 330 55.640 21.873 75.013 1.00 32.74 ATOM 5639 CB LEU B 330 55.889 21.311 76.330 1.00 32.74 ATOM 5639 CB LEU B 330 57.267 20.642 76.382 1.00 37.01 ATOM 5640 CG LEU B 330 57.267 20.642 76.382 1.00 37.01 ATOM 5641 CDL LEU B 330 57.267 20.642 76.382 1.00 34.99 ATOM 5642 CDL LEU B 330 55.639 18.396 75.742 1.00 34.10 ATOM 5642 CDL LEU B 330 55.369 22.163 77.429 1.00 34.10 ATOM 5642 CDL LEU B 330 55.200 22.110 78.482 1.00 34.10 ATOM 5645 N LYS B 331 56.353 21.550 77.482 1.00 34.19 ATOM 5645 N LYS B 331 56.353 21.550 77.186 1.00 34.19 ATOM 5645 N LYS B 331 56.353 21.550 77.186 1.00 34.19 ATOM 5645 CDL LYS B 331 57.162 25.788 77.712 1.00 46.25 ATOM 5646 CDL LYS B 331 57.162 25.788 77.732 1.00 46.25 ATOM 5645 CDL LYS B 331 59.492 26.610 77.021 1.00 45.25 ATOM 5645 CDL LYS B 331 58.013 28.569 77.662 1.00 51.07 ATOM 5650 CDL LYS B 331 58.013 28.569 77.662 1.00 51.07 ATOM 5650 CDL LYS B 331 58.013 28.569 77.662 1.00 56.18 ATOM 5650 CDL LYS B 331 54.588 25.416 79.631 1.00 49.96 ATOM 5651 NZ LYS B 331 54.588 25.416 79.631 1.00 49.96 ATOM 5655 CDL LYS B 331 54.588 25.416 79.631 1.00 49.96 ATOM 5655 CDL LYS B 331 54.588 25.416 79.631 1.00 49.95 ATOM 5656 CDL LYS B 332 54.688 25.416 79.631 1.00 49.95 ATOM 5656 CDL LYS B 333 52.341 1.00 49.95 ATOM 5656 CDL LYS B 333 52.341 1.00 49.95 ATOM 5657 CDL LYS B 333 52.341 1.00 49.95 ATOM 5657 CDL LYS B 333 52.341 1.00 49.95 ATOM 5657 CDL LYS B 333 52.341 1.00 49.95 ATOM 5657 CDL LYS B 333 52.341 1.00 49.95 ATOM 5657 CDL LYS B 333 52.341 1.00 49.95 ATOM 5657 CDL LYS B 333 52.341 1.00 49.95 ATOM 5657 CDL LYS B 333 52.341 1.00 49.95 ATOM 5657 CDL LYS B 333 52.341 1.00 49.95 ATOM 5657 CDL LYS B 333 52.341 1.00 49.95 ATOM 5657 CDL LYS B 333 52.341 1.00 49.95 ATOM 5658 CDL LYS B 333 52.341 1.00 49.95 ATOM 5659 CDL LYS B 334 49.850 22.266 84.641 1.00 59.95 ATOM 5661 CDL LYS B 333 52.341 1.00 59.95 ATOM 5662 CDL LYS B 333 52.341 1.00 59.95 ATOM 5660 CDL LYS B 334 49.850 2	3 mov	5631	CD2	LEU B	329	53.521	19.699	71.525	1.00 32.36
ATOM 5637 N LEU B 330 55.89 21.311 76.330 1.00 30.53 ATOM 5638 CA LEU B 330 55.889 21.311 76.330 1.00 30.49 ATOM 5639 CB LEU B 330 55.889 21.311 76.330 1.00 34.99 ATOM 5640 CG LEU B 330 57.466 19.428 75.470 1.00 34.19 ATOM 5641 CDI LEU B 330 57.466 19.428 75.470 1.00 34.91 ATOM 5642 CDZ LEU B 330 56.365 18.396 75.742 1.00 34.10 34.01 ATOM 5642 CDZ LEU B 330 56.365 18.396 75.742 1.00 34.10 ATOM 5642 CDZ LEU B 330 55.769 22.363 77.429 1.00 34.19 ATOM 5645 N LYS B 331 56.331 24.604 78.881 1.00 34.34 ATOM 5645 N LYS B 331 56.333 24.604 78.886 1.00 34.99 ATOM 5645 N LYS B 331 56.333 24.604 78.886 1.00 34.99 ATOM 5646 CD LYS B 331 56.353 21.540 77.886 1.00 34.34 ATOM 5645 N LYS B 331 56.353 22.540 77.886 1.00 34.99 ATOM 5656 CD LYS B 331 57.162 25.788 77.732 1.00 46.25 ATOM 5655 CD LYS B 331 59.371 27.957 77.635 1.00 51.07 ATOM 5655 CD LYS B 331 59.371 27.957 77.733 1.00 50.65 ATOM 5651 NZ LYS B 331 59.371 27.957 77.773 1.00 50.61 B ATOM 5655 N R SR B 332 54.088 25.496 77.665 1.00 56.18 ATOM 5655 N R SR B 332 54.088 25.496 77.695 1.00 45.61 B ATOM 5655 CD LYS B 331 54.892 25.069 77.662 1.00 56.18 ATOM 5655 N R SR B 332 54.088 25.416 79.631 1.00 42.65 ATOM 5655 N R SR B 332 54.088 25.416 79.631 1.00 42.65 ATOM 5656 N R SR B 332 54.088 25.416 79.631 1.00 42.66 ATOM 5656 N R SR B 332 54.088 25.416 79.631 1.00 49.55 ATOM 5657 N R SR B 332 54.088 25.416 79.631 1.00 49.55 ATOM 5656 N R SR B 332 54.088 25.496 77.492 1.00 46.58 ATOM 5656 N R SR B 332 54.088 25.496 77.492 1.00 46.58 ATOM 5657 N R SR B 332 54.088 25.497 77.979 1.00 46.58 ATOM 5656 N R SR B 332 54.088 25.497 77.995 1.00 46.58 ATOM 5656 N R SR B 332 54.088 25.497 77.995 1.00 48.55 ATOM 5666 N R SR B 332 54.088 25.497 77.995 1.00 48.55 ATOM 5666 N R SR B 333 54.088 27.996 24.507 78.451 1.00 49.55 ATOM 5666 N R SR B 333 54.088 27.996 24.507 78.451 1.00 49.55 ATOM 5666 N R SR B 333 54.088 27.996 24.507 78.451 1.00 55.42 ATOM 5666 N R SR B 333 54.088 27.996 24.507 78.451 1.00 55.42 ATOM 5666 N R SR B 334 47.051 20.997 82.266 1.00 55.42 ATOM 5666 N R SR B 334 47.051	ATOM	-							1 00 34 07
ATOM 5636 O LEU B 330 55.621 22.664 75.833 1.00 30.53 ATOM 5638 CA LEU B 330 55.689 21.111 76.330 1.00 32.74 ATOM 5639 CB LEU B 330 55.689 21.111 76.330 1.00 34.99 ATOM 5640 CG LEU B 330 57.267 20.642 75.728 1.00 34.91 ATOM 5642 CD2 LEU B 330 56.369 18.396 75.728 1.00 34.19 ATOM 5642 CD2 LEU B 330 55.789 22.363 75.742 1.00 34.10 ATOM 5644 CD LEU B 330 55.710 22.110 78.482 1.00 34.10 ATOM 5645 N LYS B 331 56.353 23.507 77.122 1.00 34.19 ATOM 5647 CB LYS B 331 56.353 23.540 77.712 1.00 49.96 ATOM 5655 CD LYS B 331 58.653 25.496 77.662 1.00 49.96 ATOM 5651 N LYS B 331 54.822	ATOM	5635	С	LEU B	329				
ATOM 5637 N LEU B 330 55.640 21.813 75.013 1.00 32.74 ATOM 5639 CB LEU B 330 55.889 21.311 75.033 1.00 32.74 ATOM 5640 CG LEU B 330 57.466 19.428 75.472 1.00 42.763 1.00 34.69 ATOM 5642 CD LEU B 330 55.789 12.163 77.429 1.00 34.69 ATOM 5644 O LEU B 330 55.789 12.100 78.482 1.00 34.19 ATOM 5646 CA LYS B 331 56.353 21.02 21.10 78.482 1.00 34.19 ATOM 5646 CB LYS B 331 56.313 24.600 77.622 1.00 46.19 ATOM 5650 CE LYS B 331 59.91		5636		LEU B	329	53.621	22.664	75.583	1.00 30.53
ATOM 5638 CA LEU B 330								75 013	
ATOM 5639 CB LEUB 3300 57.267 20.642 76.382 1.00 34.93 ATOM 5640 CG LEUB 3300 57.267 20.642 75.470 1.00 34.91 ATOM 5641 CDI LEUB 3300 58.832 18.817 75.728 1.00 34.69 ATOM 5642 CD2 LEUB 3300 55.369 18.396 75.742 1.00 34.10 ATOM 5642 CD2 LEUB 3300 55.5789 22.363 77.429 1.00 34.10 ATOM 5644 CD LEUB 3300 55.509 22.363 77.429 1.00 34.10 ATOM 5645 N LYS B 331 56.333 23.540 77.866 1.00 34.35 ATOM 5646 CD LEUS B 330 55.210 22.110 78.482 1.00 34.19 ATOM 5645 N LYS B 331 56.333 23.540 77.866 1.00 34.35 ATOM 5646 CD LYS B 331 56.333 24.604 78.181 1.00 46.25 ATOM 5646 CD LYS B 331 58.658 25.496 77.685 1.00 51.07 ATOM 5645 CD LYS B 331 58.658 25.496 77.685 1.00 51.07 ATOM 5655 CD LYS B 331 59.371 27.957 77.721 1.00 49.96 ATOM 5655 CD LYS B 331 54.892 25.069 77.662 1.00 56.18 ATOM 5655 CD LYS B 331 54.892 25.069 77.662 1.00 56.18 ATOM 5655 CD LYS B 331 54.892 25.069 77.662 1.00 56.18 ATOM 5655 CD LYS B 331 54.892 25.069 77.692 1.00 44.54 ATOM 5655 CD SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5655 CD SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5655 CD SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5656 CD SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5656 CD SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5656 CD SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5656 CD SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5656 CD SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5660 CD SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5660 CD SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5660 CD SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5660 CD SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5660 CD SER B 332 54.018 24.079 78.451 1.00 49.55 ATOM 5660 CD SER B 332 54.018 24.079 78.451 1.00 49.55 ATOM 5660 CD SER B 332 54.018 24.079 78.451 1.00 49.55 ATOM 5660 CD SER B 333 54.018 24.079 78.451 1.00 49.55 ATOM 5660 CD SER B 333 54.018 24.079 78.451 1.00 49.55 ATOM 5660 CD SER B 333 54.018 24.079 78.451 1.00 59.26 ATOM 5660 CD SER B 333 54.018 24.079 78.451 1.00 59.26 ATOM 5660 CD SER B 334 48.851 1.00 59.46 ATOM 5660 CD SER B 335	MOTA	5637	N						
ATOM 5640 CB LEU B 330		5638	$C\Delta$	LEII B	330	55.889	21.311	76.330	1.00 34.99
ATOM 5640 CG LEU B 330 S7, 466 19, 428 75, 470 1.00 34.91 ATOM 5641 CD1 LEU B 330 S8 832 18.817 75.728 1.00 34.69 ATOM 5642 CD2 LEU B 330 S6 839 18.396 75.742 1.00 34.10 ATOM 5642 CD2 LEU B 330 S5.789 22.363 77.429 1.00 34.19 ATOM 5644 C LEU B 330 S5.789 22.363 77.429 1.00 34.19 ATOM 5645 N LYS B 331 S5.210 22.110 78.482 1.00 34.19 ATOM 5646 CA LYS B 331 56.333 23.540 77.186 1.00 34.35 ATOM 5646 CA LYS B 331 56.333 24.604 78.181 1.00 43.35 ATOM 5647 CB LYS B 331 57.162 25.788 77.712 1.00 46.25 ATOM 5648 CG LYS B 331 58.658 25.496 77.685 1.00 51.07 ATOM 5649 CD LYS B 331 59.482 66.610 77.021 1.00 49.96 ATOM 5650 CE LYS B 331 59.482 66.610 77.021 1.00 49.96 ATOM 5651 NZ LYS B 331 54.589 25.5069 78.494 1.00 42.08 ATOM 5652 C LYS B 331 54.892 25.069 78.494 1.00 42.08 ATOM 5653 O LYS B 331 54.588 25.416 79.631 1.00 43.55 ATOM 5655 CA SER B 332 54.018 25.5067 77.679 1.00 44.54 ATOM 5655 CR SER B 332 54.018 25.5067 77.679 1.00 44.54 ATOM 5655 CR SER B 332 54.018 25.5067 77.679 1.00 46.58 ATOM 5656 CB SER B 332 51.780 24.527 75.646 1.00 49.55 ATOM 5657 OG SER B 332 51.780 24.527 77.679 1.00 46.57 ATOM 5658 C SER B 332 51.780 24.527 77.679 1.00 46.57 ATOM 5659 O SER B 332 51.780 24.527 79.848 1.00 42.54 ATOM 5660 N ILE B 333 51.586 22.267 79.848 1.00 49.55 ATOM 5660 C ILE B 333 51.586 22.267 79.848 1.00 49.55 ATOM 5660 N ILE B 333 51.586 22.267 79.848 1.00 51.93 ATOM 5660 C ILE B 333 51.780 24.527 77.905 1.00 55.42 ATOM 5660 C ILE B 333 51.780 20.539 77.905 1.00 55.42 ATOM 5660 C ILE B 333 51.780 20.945 79.376 1.00 51.82 ATOM 5660 C ILE B 333 51.780 20.945 79.376 1.00 55.42 ATOM 5660 C ILE B 333 51.780 20.945 79.376 1.00 55.42 ATOM 5660 C ILE B 333 51.780 20.945 79.376 1.00 55.42 ATOM 5660 C ILE B 333 51.780 20.945 79.376 1.00 55.42 ATOM 5660 C ILE B 333 51.780 20.945 79.376 1.00 55.42 ATOM 5660 C ILE B 333 51.780 20.945 79.377 1.00 55.42 ATOM 5660 C ILE B 333 52.380 20.938 80.529 1.00 60.38 ATOM 5661 C ILE B 333 52.380 20.938 80.529 1.00 60.38 ATOM 5662 C B ILE B 333 52.380 20.938 80.529 1.00 60.38 ATOM 5663 C C B ILE		-						76 382	1 00 37 01
ATOM 5640 CD LEU B 330 58.832 18.817 75.728 1.00 34.69 ATOM 5642 CD LEU B 330 58.832 18.817 75.728 1.00 34.69 ATOM 5642 CD LEU B 330 56.369 18.396 77.429 1.00 37.10 ATOM 5642 CD LEU B 330 55.789 22.363 77.429 1.00 34.10 ATOM 5644 O LEU B 330 55.789 22.363 77.429 1.00 34.19 ATOM 5646 CA LYS B 331 56.353 23.540 77.186 1.00 34.19 ATOM 5646 CA LYS B 331 56.353 23.540 77.186 1.00 34.19 ATOM 5646 CR LYS B 331 56.353 23.540 77.186 1.00 34.35 ATOM 5647 CB LYS B 331 56.353 23.540 77.186 1.00 43.35 ATOM 5648 CG LYS B 331 58.658 25.466 77.685 1.00 51.07 ATOM 5649 CD LYS B 331 59.482 26.610 77.021 1.00 49.67 ATOM 5649 CD LYS B 331 59.482 26.610 77.021 1.00 49.65 ATOM 5651 NZ LYS B 331 54.588 25.416 79.631 1.00 53.08 ATOM 5652 C LYS B 331 54.588 25.416 79.631 1.00 43.05 ATOM 5655 CR SER B 332 54.018 25.506 77.492 1.00 44.05 ATOM 5655 CA SER B 332 54.018 25.506 77.492 1.00 44.05 ATOM 5655 CA SER B 332 54.018 25.506 77.492 1.00 44.05 ATOM 5655 CA SER B 332 54.018 25.506 77.492 1.00 44.05 ATOM 5656 CB SER B 332 54.018 25.506 77.492 1.00 44.57 ATOM 5656 CB SER B 332 54.018 25.506 77.492 1.00 46.57 ATOM 5650 CB SER B 332 54.018 25.506 77.492 1.00 46.57 ATOM 5650 CB SER B 332 54.018 25.506 77.492 1.00 46.57 ATOM 5650 CB SER B 332 54.018 25.506 77.492 1.00 46.57 ATOM 5650 CB SER B 332 54.018 25.056 77.492 1.00 46.57 ATOM 5660 C SER B 333 54.318 25.316 27.91 78.451 1.00 49.55 ATOM 5660 C SER B 333 51.467 22.326 79.488 1.00 51.93 ATOM 5660 C SER B 333 51.467 22.326 79.488 1.00 51.93 ATOM 5660 C SER B 333 51.467 19.902 80.134 1.00 50.29 ATOM 5660 C SER B 333 51.467 19.902 80.134 1.00 50.29 ATOM 5660 C SER B 333 51.467 19.902 80.134 1.00 50.29 ATOM 5660 C SER B 333 51.467 19.902 80.134 1.00 50.29 ATOM 5660 C SER B 333 51.477 19.902 80.134 1.00 50.404 ATOM 5670 C SER B 334 47.751 19.838 81.261 1.00 49.55 ATOM 5660 C SER B 333 51.467 19.838 81.261 1.00 55.42 ATOM 5660 C SER B 333 51.467 19.838 81.00 55.42 ATOM 5660 C SER B 335 51.860 79.20 99.91 81.614 1.00 50.604 ATOM 5677 C A SP B 334 47.91 19.838 81.270 1.00 55.42 ATOM 5660 C SER B 3	ATOM	5639	CB						
ATOM 5641 CD1 LEU B 330		5640	CG	LEU B	330	57.466	19.428	75.470	1.00 34.91
ATOM 5642 CD2 LEU B 330	ATOM							75 728	1 00 34 69
ATOM 5642 CD2 LEU B 330	MOTA	5641	CD1	LEU B	330				
ATOM 5642 C LEU B 330 55.789 22.363 77.429 1.00 37.12 ATOM 5644 O LEU B 330 55.210 22.110 78.482 1.00 34.34 ATOM 5646 CA LYS B 331 56.333 23.540 77.186 1.00 34.34 ATOM 5646 CA LYS B 331 56.333 23.540 77.186 1.00 34.34 ATOM 5646 CA LYS B 331 57.162 25.788 77.712 1.00 46.25 ATOM 5648 CG LYS B 331 57.162 25.788 77.712 1.00 46.25 ATOM 5649 CD LYS B 331 59.482 26.610 77.021 1.00 49.96 ATOM 5650 CE LYS B 331 59.482 26.610 77.021 1.00 49.97 ATOM 5651 NZ LYS B 331 58.658 25.496 77.685 1.00 51.07 ATOM 5651 NZ LYS B 331 58.658 25.696 77.733 1.00 53.08 ATOM 5651 NZ LYS B 331 58.658 25.696 77.662 1.00 56.18 ATOM 5652 C LYS B 331 54.892 25.669 78.494 1.00 42.06 ATOM 5653 O LYS B 331 54.892 25.069 78.494 1.00 42.06 ATOM 5655 CA SER B 332 51.780 27.757 77.492 1.00 44.54 ATOM 5655 CA SER B 332 51.780 27.757 77.492 1.00 44.54 ATOM 5655 CG SER B 332 51.780 24.527 77.674 1.00 49.56 ATOM 5658 C SER B 332 51.780 24.527 77.674 1.00 49.56 ATOM 5659 O SER B 332 51.780 24.527 77.694 1.00 48.75 ATOM 5650 CG SER B 332 51.780 24.527 77.8451 1.00 49.56 ATOM 5650 C SER B 332 51.780 24.527 77.8451 1.00 49.56 ATOM 5650 C SER B 332 51.780 24.527 77.8451 1.00 49.56 ATOM 5650 C SER B 332 51.780 24.527 77.8451 1.00 49.56 ATOM 5650 C SER B 333 51.780 24.527 77.8451 1.00 49.56 ATOM 5660 N LLE B 333 52.341 23.345 78.770 1.00 50.29 ATOM 5661 CA LLE B 333 52.341 23.345 78.770 1.00 50.29 ATOM 5661 CA LLE B 333 52.340 49.850 20.344 1.00 50.96 ATOM 5662 CB LLE B 333 52.259 20.945 79.376 1.00 51.93 ATOM 5666 CA LLE B 333 52.259 20.593 77.995 1.00 52.94 ATOM 5667 O LLE B 333 52.259 20.593 77.995 1.00 52.94 ATOM 5667 O LLE B 333 52.259 20.593 77.995 1.00 52.94 ATOM 5667 CA SAP B 334 49.850 22.366 82.865 1.00 58.51 ATOM 5667 CA SAP B 334 49.850 22.366 82.865 1.00 58.51 ATOM 5667 CA SAP B 334 49.850 22.366 82.865 1.00 58.51 ATOM 5667 CA SAP B 334 49.850 22.366 82.865 1.00 59.16 ATOM 5675 CB PHE B 335 55.901 18.843 81.612 1.00 54.60 ATOM 5675 CB PHE B 335 55.901 18.843 81.612 1.00 54.60 ATOM 5676 CB PHE B 335 55.901 18.843 81.622 1.00 59.16 ATOM 5680 CD PHE B		5617	CD2	LEIL B	330	56.369	18.396	75.742	1.00 34.10
ATOM 5644 O LEU B 330				DE0 D	330			77 429	1 00 37 12
ATOM 5644 O LEU B 330 55.210 77.186 1.00 34.34 ATOM 5646 CA LYS B 331 56.313 24.604 77.186 1.00 34.34 ATOM 5646 CA LYS B 331 57.162 25.788 77.712 1.00 46.25 ATOM 5647 CB LYS B 331 57.162 25.788 77.712 1.00 46.25 ATOM 5648 CG LYS B 331 57.162 25.788 77.712 1.00 46.25 ATOM 5649 CD LYS B 331 59.482 26.610 77.021 1.00 49.96 ATOM 5650 CE LYS B 331 59.482 26.610 77.021 1.00 49.96 ATOM 5651 NZ LYS B 331 59.482 26.610 77.021 1.00 49.96 ATOM 5651 NZ LYS B 331 59.371 27.957 77.733 1.00 56.188 ATOM 5652 C LYS B 331 54.882 25.069 78.494 1.00 42.06 ATOM 5652 C LYS B 331 54.588 25.416 79.631 1.00 43.05 ATOM 5653 O LYS B 331 54.588 25.416 79.631 1.00 43.05 ATOM 5655 CA SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5655 CA SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5655 CA SER B 332 51.976 24.527 75.646 1.00 49.55 ATOM 5655 CA SER B 332 51.976 24.527 75.646 1.00 49.55 ATOM 5655 CA SER B 332 51.976 24.527 75.646 1.00 49.55 ATOM 5655 CA SER B 332 51.976 24.527 75.646 1.00 49.55 ATOM 5656 CA SER B 332 51.976 24.527 75.646 1.00 49.55 ATOM 5656 C SER B 332 51.780 24.527 79.848 1.00 49.55 ATOM 5666 C LILE B 333 51.586 22.326 79.488 1.00 51.93 ATOM 5666 C LILE B 333 51.586 22.326 79.888 1.00 51.93 ATOM 5666 C LILE B 333 51.586 22.326 79.88 10.00 51.93 ATOM 5666 C LILE B 333 51.4760 20.934 10.00 40.55 ATOM 5666 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.00 50.55 ATOM 5667 C LILE B 333 51.4760 20.534 10.0	MOTA	5643	С						
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ATOM 5650 CE LYS B 331			CD	T.VS B	331	59.482	26.610	77.021	1.00 49.96
ATOM 5651 NZ LYS B 331 58.013 28.569 77.662 1.00 56.18 ATOM 5652 C LYS B 331 54.892 25.069 78.494 1.00 42.06 ATOM 5653 O LYS B 331 54.892 25.069 78.494 1.00 42.06 ATOM 5653 O LYS B 331 54.588 25.416 79.631 1.00 43.05 ATOM 5654 N SER B 332 54.018 25.056 77.492 1.00 44.58 ATOM 5655 CA SER B 332 52.639 25.502 77.679 1.00 46.58 ATOM 5656 CB SER B 332 51.769 24.527 75.646 1.00 49.55 ATOM 5658 C SER B 332 51.780 24.527 75.646 1.00 49.55 ATOM 5658 C SER B 332 51.780 24.507 78.451 1.00 45.66 ATOM 5658 C SER B 333 51.780 24.507 78.451 1.00 45.66 ATOM 5660 N ILE B 333 52.359 20.594 79.376 1.00 50.55 ATOM 5661 CA ILE B 333 52.359 20.594 79.376 1.00 51.93 ATOM 5661 CA ILE B 333 52.359 20.594 79.376 1.00 51.93 ATOM 5666 C ILE B 333 52.359 20.594 79.376 1.00 51.93 ATOM 5666 CD ILE B 333 52.359 20.599 77.905 1.00 52.29 ATOM 5666 CD ILE B 333 52.359 20.599 77.905 1.00 55.42 ATOM 5666 C ILE B 333 52.359 20.599 77.905 1.00 55.42 ATOM 5666 CD ILE B 333 52.359 20.599 77.905 1.00 55.42 ATOM 5667 C B SER B 334 49.850 22.368 82.990 81.614 1.00 50.96 ATOM 5667 C B SEP B 334 49.850 22.268 82.999 1.00 63.38 ATOM 5670 C B SEP B 334 49.850 22.306 82.855 1.00 59.16 ATOM 5671 CG ASP B 334 49.850 22.216 82.999 1.00 63.38 ATOM 5672 CD ASP B 334 49.850 22.216 82.999 1.00 63.38 ATOM 5673 CD ASP B 334 49.830 2.291 82.262 1.00 59.16 ATOM 5673 CD ASP B 334 49.830 2.291 82.262 1.00 59.16 ATOM 5675 CD ASP B 334 49.830 2.291 84.171 1.00 55.40 ATOM 5675 CD ASP B 334 49.830 2.291 84.171 1.00 55.60 ATOM 5675 CD ASP B 334 49.830 2.291 84.171 1.00 55.60 ATOM 5675 CD ASP B 334 49.830 2.291 84.171 1.00 55.60 ATOM 5676 CD ASP B 334 49.830 2.291 84.171 1.00 55.60 ATOM 5677 CA PHE B 335 53.518 17.860 85.247 1.00 45.60 ATOM 5677 CA PHE B 335 54.527 20.266 84.641 1.00 55.21 ATOM 5682 CD PHE B 335 54.637 16.600 85.247 1.00 45.60 ATOM 5685 CD PHE B 335 54.637 16.600 85.247 1.00 45.60 ATOM 5685 CD PHE B 335 54.637 16.600 85.247 1.00 55.21 ATOM 5682 CD PHE B 335 55.991 20.378 87.012 1.00 55.21 ATOM 5682 CD PHE B 335 52.997 20.378 87.012 1.00 55.21 ATOM 5683 CD PHE B	ATOM						27 257	77 733	1 00 53 08
ATOM 5652 C LYS B 331 54.892 25.069 78.494 1.00 42.06 ATOM 5653 O LYS B 331 54.892 25.069 78.494 1.00 43.05 ATOM 5654 N SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5655 CA SER B 332 52.639 25.502 77.679 1.00 44.54 ATOM 5655 CA SER B 332 51.769 24.527 75.646 1.00 49.55 ATOM 5657 CG SER B 332 51.769 24.527 75.646 1.00 49.55 ATOM 5658 C SER B 332 51.769 24.527 75.646 1.00 49.55 ATOM 5659 O SER B 332 51.780 24.507 78.451 1.00 46.67 ATOM 5650 N ILE B 333 52.341 23.345 78.770 1.00 50.55 ATOM 5660 C ILE B 333 52.341 23.345 78.770 1.00 50.55 ATOM 5661 CA ILE B 333 51.586 22.326 79.488 1.00 51.93 ATOM 5662 CB ILE B 333 51.447 19.902 80.134 1.00 50.55 ATOM 5666 CG ILE B 333 51.447 19.902 80.134 1.00 50.55 ATOM 5666 CG ILE B 333 51.447 19.902 80.134 1.00 50.96 ATOM 5666 CG ILE B 333 51.447 19.902 80.134 1.00 50.96 ATOM 5666 CG ILE B 333 51.447 19.902 80.134 1.00 50.96 ATOM 5666 CG ILE B 333 51.447 19.902 80.134 1.00 50.96 ATOM 5666 CG ILE B 333 51.447 19.902 80.134 1.00 50.96 ATOM 5660 CG ILE B 333 51.447 19.902 80.134 1.00 50.96 ATOM 5667 0 ILE B 333 51.447 19.902 80.134 1.00 50.96 ATOM 5667 0 ILE B 333 51.447 19.902 80.134 1.00 50.96 ATOM 5667 0 ILE B 333 51.447 19.902 80.134 1.00 50.96 ATOM 5667 0 ILE B 333 51.447 19.902 80.134 1.00 50.96 ATOM 5667 0 CB ASP B 334 49.850 22.266 82.865 1.00 51.45 ATOM 5667 0 CB ASP B 334 49.850 22.266 82.865 1.00 51.45 ATOM 5671 CG ASP B 334 49.850 22.214 81.672 1.00 54.05 ATOM 5672 001 ASP 3 334 47.033 21.138 81.252 1.00 59.16 ATOM 5675 0 ASP B 334 49.830 20.291 84.171 1.00 54.08 ATOM 5675 0 ASP B 334 49.830 20.291 84.171 1.00 54.08 ATOM 5676 CG ASP B 335 52.504 20.266 84.641 1.00 55.47 ATOM 5676 CD PHE B 335 52.504 20.266 84.641 1.00 55.47 ATOM 5676 CD PHE B 335 52.504 20.266 84.641 1.00 55.40 ATOM 5679 CG PHE B 335 52.504 20.266 84.641 1.00 55.06 ATOM 5680 CDI PHE B 335 54.817 84.882 84.882 1.00 45.95 ATOM 5680 CDI PHE B 335 54.818 21.286 87.535 1.00 64.08 ATOM 5680 CDI PHE B 335 54.818 21.286 87.535 1.00 64.08 ATOM 5681 CDI PHE B 335 54.818 21.286 87.535 1.00 64.08 ATOM 5680 CDI P	ATOM	5650	CE	LYS B	166				
ATOM 5652 C LYS B 331	D TOM	5651	NZ.	LYS B	331	58.013	28.569	77.662	
ATOM 5653 O LYS B 331 54.588 25.416 79.631 1.00 43.05 ATOM 5654 N SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5655 CA SER B 332 52.639 25.502 77.679 1.00 46.58 ATOM 5655 CB SER B 332 51.769 24.527 75.646 1.00 49.55 ATOM 5657 OG SER B 332 51.769 24.527 75.646 1.00 49.55 ATOM 5658 C SER B 332 51.769 24.527 75.646 1.00 49.55 ATOM 5658 C SER B 332 51.769 24.527 75.646 1.00 49.55 ATOM 5660 N ILE B 333 51.769 24.527 77.649 1.00 49.55 ATOM 5661 CA ILE B 333 51.586 22.326 79.488 1.00 50.57 ATOM 5661 CA ILE B 333 51.586 22.326 79.488 1.00 50.55 ATOM 5666 C ILE B 333 52.259 20.945 79.376 1.00 50.57 ATOM 5666 C ILE B 333 52.359 20.539 77.905 1.00 52.29 ATOM 5666 C ILE B 333 52.359 20.539 77.905 1.00 52.48 ATOM 5666 C ILE B 333 52.359 20.539 77.905 1.00 52.48 ATOM 5666 C ILE B 333 52.359 20.539 77.905 1.00 52.48 ATOM 5666 C ILE B 333 52.359 20.539 77.905 1.00 52.48 ATOM 5666 C ILE B 333 52.359 20.539 77.905 1.00 52.48 ATOM 5666 C ILE B 333 52.359 20.539 77.905 1.00 52.48 ATOM 5667 C ILE B 333 52.359 20.539 77.905 1.00 55.48 ATOM 5667 C ILE B 333 52.350 22.290 81.614 1.00 50.96 ATOM 5667 C ILE B 333 52.380 22.290 81.614 1.00 50.96 ATOM 5670 CB ASP B 334 49.850 22.264 80.964 1.00 51.45 ATOM 5671 CG ASP B 334 48.320 22.216 82.855 1.00 58.15 ATOM 5673 OD2 ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5673 OD2 ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5673 OD2 ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5673 CB PHE B 335 53.188 19.784 83.811 1.00 54.08 ATOM 5676 C PHE B 335 53.398 17.589 85.008 1.00 45.60 ATOM 5676 C PHE B 335 52.524 20.266 84.641 1.00 55.46 ATOM 5679 CG PHE B 335 52.524 20.266 84.641 1.00 55.46 ATOM 5679 CG PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5680 CD PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5680 CD PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5680 CD PHE B 335 54.522 18.717 84.482 1.00 46.08 ATOM 5680 CD PHE B 335 54.522 18.717 84.482 1.00 46.08 ATOM 5680 CD PHE B 335 56.601 86.737 85.772 1.00 65.56 ATOM 5680 CD PHE B 335 56.601 86.737 85.772 1.00 65.66 ATOM 5680 CD PHE B 335 56.						54 892	25 069	78.494	1.00 42.06
ATOM 5654 N SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5655 CA SER B 332 52.639 25.502 77.679 1.00 46.58 ATOM 5655 CB SER B 332 52.639 25.502 77.679 1.00 46.58 ATOM 5657 OG SER B 332 51.975 25.751 76.329 1.00 48.75 ATOM 5657 OG SER B 332 51.975 24.527 75.646 1.00 49.55 ATOM 5659 O SER B 332 51.769 24.527 78.451 1.00 49.55 ATOM 5659 O SER B 332 50.618 24.791 78.749 1.00 46.67 ATOM 5650 N ILE B 333 52.341 23.345 78.770 1.00 50.55 ATOM 5661 CA ILE B 333 52.341 23.345 78.770 1.00 50.55 ATOM 5661 CA ILE B 333 52.259 20.945 79.376 1.00 51.82 ATOM 5662 CB ILE B 333 52.359 20.539 77.905 1.00 52.18 ATOM 5664 CGI ILE B 333 52.359 20.539 77.905 1.00 52.18 ATOM 5666 C ILE B 333 53.044 19.210 77.693 1.00 52.218 ATOM 5666 C ILE B 333 53.044 19.210 77.693 1.00 55.42 ATOM 5666 C ILE B 333 52.245 22.226 80.964 1.00 51.82 ATOM 5667 O ILE B 333 52.359 20.539 77.905 1.00 52.18 ATOM 5669 CA ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5669 CA ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5667 CB ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5671 CG ASP B 334 49.850 22.306 82.865 1.00 59.16 ATOM 5672 OD1 ASP B 334 49.850 22.306 82.865 1.00 59.16 ATOM 5673 CD ASP B 334 49.850 22.306 82.865 1.00 59.16 ATOM 5672 OD1 ASP B 334 49.850 22.306 82.865 1.00 59.16 ATOM 5673 CD ASP B 334 49.830 22.216 82.959 1.00 60.38 ATOM 5673 CD ASP B 334 49.830 22.216 82.959 1.00 60.38 ATOM 5673 CD ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5673 CD ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5676 CD ASP B 335 53.718 19.784 83.811 1.00 55.47 ATOM 5676 CD ASP B 335 52.818 19.784 88.517 1.00 55.47 ATOM 5682 CD PHE B 335 53.6661 21.207 83.701 1.00 59.16 ATOM 5682 CD PHE B 335 53.6661 21.207 83.701 1.00 55.21 ATOM 5682 CD PHE B 335 53.6661 21.207 83.701 1.00 55.21 ATOM 5682 CD PHE B 335 53.6661 21.207 83.701 1.00 55.21 ATOM 5682 CD PHE B 335 53.6661 21.207 83.701 1.00 55.21 ATOM 5682 CD PHE B 335 53.6661 21.207 88.247 1.00 64.02 ATOM 5683 CD PHE B 335 52.917 20.378 87.012 1.00 55.21 ATOM 5684 CD PHE B 335 52.917 20.378 87.012 1.00 57.29 ATOM 5684	MOTA	5652	Ç						
ATOM 5655 CA SER B 332 54.018 25.056 77.492 1.00 44.54 ATOM 5656 CB SER B 332 52.639 25.502 77.679 1.00 44.54 ATOM 5656 CB SER B 332 51.975 25.751 76.329 1.00 48.75 ATOM 5657 OG SER B 332 51.975 25.751 76.329 1.00 48.75 ATOM 5658 C SER B 332 51.780 24.527 75.646 1.00 49.55 ATOM 5658 C SER B 332 51.780 24.527 75.646 1.00 49.55 ATOM 5659 O SER B 332 50.618 24.791 78.749 1.00 46.67 ATOM 5660 CA ILE B 333 51.586 22.326 79.488 1.00 51.93 ATOM 5661 CA ILE B 333 51.586 22.326 79.488 1.00 51.82 ATOM 5663 CG ILE B 333 52.259 20.945 79.376 1.00 50.55 ATOM 5665 CD ILE B 333 52.359 20.539 77.905 1.00 50.25 ATOM 5666 C ILE B 333 51.447 19.902 80.134 1.00 50.25 ATOM 5666 C ILE B 333 51.447 19.902 80.134 1.00 50.25 ATOM 5666 C ILE B 333 51.467 19.902 80.134 1.00 50.25 ATOM 5666 C ILE B 333 51.467 19.902 80.134 1.00 50.25 ATOM 5666 CD ILE B 333 51.367 22.634 80.964 1.00 51.82 ATOM 5666 C ILE B 333 51.367 22.634 80.964 1.00 51.45 ATOM 5667 CA ASP B 334 49.850 22.216 82.959 1.00 55.42 ATOM 5667 CA ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5673 OD2 ASP B 334 48.320 22.216 82.959 1.00 63.88 ATOM 5673 OD2 ASP B 334 48.017 19.833 82.710 1.00 55.47 ATOM 5673 OD2 ASP B 334 47.033 21.138 81.252 1.00 59.16 ATOM 5676 N PHE B 335 51.816 (21.207 83.701 1.00 55.47 ATOM 5676 C ASP B 334 49.833 20.291 84.171 1.00 55.40 ATOM 5676 C ASP B 334 49.833 20.291 84.171 1.00 55.40 ATOM 5676 C ASP B 334 49.833 20.291 84.171 1.00 55.47 ATOM 5676 C ASP B 334 49.833 20.291 84.171 1.00 55.47 ATOM 5676 C ASP B 334 49.833 20.291 84.171 1.00 55.40 ATOM 5676 C ASP B 334 49.833 20.291 84.171 1.00 55.40 ATOM 5676 C ASP B 334 49.833 20.291 84.171 1.00 55.47 ATOM 5676 C ASP B 335 53.68 B 17.589 85.008 1.00 45.60 ATOM 5676 C B PHE B 335 53.66 E 2.20 PHE B 335 53.60 ATOM 5681 CD2 PHE B 335 53.66 E 2.20 PHE B 335 53.60 ATOM 5682 CE PHE B 335 53.60 ATOM 5683 CE PHE B 335 53.60 ATOM 5680 CE PHE B 335 53.60 ATOM 5680 CE PHE B 335 53.60 ATOM 5681 CD2 PHE B 335 55.901 18.843 89.00 ATOM 5680 CE PHE B 335 50.00 ATOM 5680 CE PHE B 335 50.00 ATOM 5680 CE PHE B 335 50.00	MOTIC	5653	0	LYS B	331	54.588			
ATOM 5655 CA SER B 332 52.639 25.502 77.679 1.00 46.58 ATOM 5656 CB SER B 332 51.769 24.527 75.646 1.00 49.55 ATOM 5657 OG SER B 332 51.769 24.527 75.646 1.00 49.55 ATOM 5658 C SER B 332 51.769 24.527 75.646 1.00 49.55 ATOM 5659 O SER B 332 50.618 24.791 78.749 1.00 46.67 ATOM 5660 N ILE B 333 52.341 23.345 78.770 1.00 50.55 ATOM 5661 CA ILE B 333 52.259 20.945 79.376 1.00 51.82 ATOM 5662 CB ILE B 333 52.259 20.945 79.376 1.00 51.82 ATOM 5663 CG2 ILE B 333 52.259 20.945 79.376 1.00 51.82 ATOM 5665 CD1 ILE B 333 52.259 20.945 79.376 1.00 52.28 ATOM 5665 CD1 ILE B 333 52.259 20.945 79.376 1.00 52.28 ATOM 5665 CD1 ILE B 333 52.259 20.945 79.376 1.00 52.88 ATOM 5665 CD1 ILE B 333 52.259 20.945 79.376 1.00 52.88 ATOM 5665 CD1 ILE B 333 52.259 20.945 79.376 1.00 52.88 ATOM 5665 CD1 ILE B 333 52.259 20.945 79.376 1.00 55.42 ATOM 5667 O ILE B 333 52.259 20.945 79.376 1.00 55.45 ATOM 5668 N ASP B 334 49.850 22.306 82.865 1.00 59.16 ATOM 5670 CB ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5671 CG ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5672 CD ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5673 OD2 ASP B 334 47.751 20.972 82.262 1.00 59.16 ATOM 5673 OD2 ASP B 334 47.033 21.138 81.252 1.00 59.71 ATOM 5676 N PHE B 335 52.524 20.266 84.641 1.00 55.47 ATOM 5677 CA PHE B 335 53.718 10.983 82.710 1.00 55.47 ATOM 5678 CB PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5682 CD1 PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5682 CD2 PHE B 335 53.718 19.788 85.008 1.00 45.61 ATOM 5682 CD2 PHE B 335 54.821 18.717 84.482 1.00 49.30 ATOM 5683 CD2 PHE B 335 53.718 19.788 85.008 1.00 45.63 ATOM 5684 CP PHE B 335 53.718 19.788 85.008 1.00 45.61 ATOM 5682 CD1 PHE B 335 53.718 19.788 85.008 1.00 45.95 ATOM 5683 CC2 PHE B 335 54.823 19.993 86.529 1.00 63.54 ATOM 5692 CG GLU B 336 54.823 19.093 88.529 1.00 64.95 ATOM 5695 CA GLU B 336 54.823 19.093 88.529 1.00 69.90 ATOM 5695 CA GLU B 336 54.823 19.093 88.529 1.00 69.90 ATOM 5695 CA GLU B 336 54.823 19.093 88.529 1.00 54.06 ATOM 5695 CA GLU B 336 54.823 19.093 88.529 1.00 54.06 AT					333	54 018	25.056	77.492	1.00 44.54
ATOM 5656 CB SER B 332 51.975 25.751 76.329 1.00 48.75 ATOM 5657 OG SER B 332 51.769 24.527 75.646 1.00 49.55 ATOM 5658 C SER B 332 51.769 24.527 78.451 1.00 49.55 ATOM 5658 C SER B 332 51.780 24.507 78.451 1.00 49.55 ATOM 5659 O SER B 332 50.618 24.791 78.749 1.00 46.67 ATOM 5661 CA ILLE B 333 51.586 22.326 79.488 1.00 51.93 ATOM 5661 CA ILLE B 333 51.586 22.326 79.488 1.00 51.82 ATOM 5662 CB ILLE B 333 51.586 22.326 79.488 1.00 51.82 ATOM 5663 CG2 ILLE B 333 51.447 19.902 80.134 1.00 50.29 ATOM 5664 CG1 ILLE B 333 51.447 19.902 80.134 1.00 50.29 ATOM 5665 CD1 ILLE B 333 51.447 19.902 80.134 1.00 50.29 ATOM 5666 C ILLE B 333 51.367 22.634 80.964 1.00 51.42 ATOM 5666 C ILLE B 333 51.367 22.634 80.964 1.00 51.42 ATOM 5667 O ILLE B 333 52.180 23.290 81.614 1.00 50.96 ATOM 5669 CA ASP B 334 48.320 22.216 82.959 1.00 63.85 ATOM 5669 CA ASP B 334 48.320 22.216 82.959 1.00 63.85 ATOM 5670 CB ASP B 334 48.017 19.833 82.710 1.00 59.16 ATOM 5672 OD1 ASP B 334 48.017 19.833 82.710 1.00 59.16 ATOM 5673 OD2 ASP B 334 47.033 21.138 81.252 1.00 59.71 ATOM 5674 C ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5675 OR PHE B 335 51.816 21.307 83.906 1.00 55.47 ATOM 5676 CB PHE B 335 52.524 20.266 84.641 1.00 55.640 ATOM 5677 CA PHE B 335 52.524 20.266 84.641 1.00 55.40 ATOM 5678 CB PHE B 335 52.524 20.266 84.641 1.00 55.40 ATOM 5679 CG PHE B 335 52.524 20.266 84.641 1.00 55.40 ATOM 5680 CD1 PHE B 335 52.524 20.266 84.641 1.00 55.40 ATOM 5681 CD2 PHE B 335 52.524 20.266 84.641 1.00 55.40 ATOM 5682 CB PHE B 335 52.524 20.266 84.641 1.00 55.40 ATOM 5683 CD1 PHE B 335 52.524 20.266 84.641 1.00 55.61 ATOM 5684 CD2 PHE B 335 52.524 20.266 84.641 1.00 55.61 ATOM 5680 CD1 PHE B 335 52.524 20.266 84.641 1.00 55.61 ATOM 5680 CD1 PHE B 335 52.524 20.266 84.641 1.00 55.61 ATOM 5680 CD1 PHE B 335 52.524 20.266 84.641 1.00 55.21 ATOM 5680 CD PHE B 335 52.524 90.398 86.229 1.00 63.84 ATOM 5680 CD PHE B 335 52.524 90.398 86.229 1.00 63.54 ATOM 5680 CD PHE B 335 52.971 20.378 87.012 1.00 64.08 ATOM 5680 CD PHE B 335 52.971 20.599 86.072 1.00 63	ATOM								
ATOM 5655 CB SER B 332 51.975 25.751 76.329 1.00 49.55 ATOM 5658 C SER B 332 51.780 24.507 78.451 1.00 49.56 ATOM 5658 C SER B 332 50.618 24.791 78.749 1.00 46.67 ATOM 5650 N ILE B 333 51.586 22.326 79.488 1.00 51.93 ATOM 5661 CA ILE B 333 51.586 22.326 79.488 1.00 51.93 ATOM 5662 CB ILE B 333 52.51 497 19.902 80.134 1.00 50.25 ATOM 5663 CG2 ILE B 333 52.351 28.04 19.902 80.134 1.00 50.29 ATOM 5666 CG1 ILE B 333 51.447 19.902 80.134 1.00 50.29 ATOM 5666 CG1 ILE B 333 51.447 19.902 80.134 1.00 50.29 ATOM 5665 CD1 ILE B 333 51.467 19.902 80.134 1.00 50.29 ATOM 5666 CG1 ILE B 333 51.467 19.902 80.134 1.00 50.29 ATOM 5666 CG1 ILE B 333 51.467 19.902 80.134 1.00 50.29 ATOM 5666 CG1 ILE B 333 51.467 19.902 80.134 1.00 50.96 ATOM 5667 O ILE B 333 51.367 22.634 80.964 1.00 51.45 ATOM 5667 O ILE B 333 51.367 22.634 80.964 1.00 51.45 ATOM 5669 CA ASP B 334 49.850 22.306 82.865 1.00 54.05 ATOM 5667 CG ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5667 CG ASP B 334 48.017 19.833 82.710 1.00 59.16 ATOM 5671 CG ASP B 334 48.017 19.833 82.710 1.00 59.16 ATOM 5672 OD1 ASP B 334 47.033 21.138 81.252 1.00 59.71 ATOM 5675 O ASP B 334 47.033 21.138 81.252 1.00 59.71 ATOM 5675 O ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5676 N PHE B 335 51.816 21.307 83.906 1.00 55.47 ATOM 5676 CG ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5677 CA APH B 335 51.816 21.307 83.906 1.00 55.47 ATOM 5678 CB PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5682 CE PHE B 335 54.522 1.00 85.651 1.00 46.83 ATOM 5682 CE PHE B 335 54.637 16.600 85.651 1.00 46.83 ATOM 5682 CE PHE B 335 52.294 20.266 84.641 1.00 56.60 ATOM 5682 CE PHE B 335 54.637 16.600 85.651 1.00 46.83 ATOM 5682 CE PHE B 335 52.971 20.599 86.072 1.00 46.95 ATOM 5692 CG GLU B 336 54.818 1.286 87.535 1.00 60.95 5.21 ATOM 5692 CG GLU B 336 54.818 1.286 87.535 1.00 60.95 5.21 ATOM 5692 CG GLU B 336 54.818 1.286 87.535 1.00 69.50 5.21 ATOM 5692 CG GLU B 336 54.818 1.286 87.535 1.00 64.95 5.400 5.400 5.400 5.400 5.400 5.400 5.400 5.400 5.400 5.400 5.400 5.400 5.400 5.400 5.400 5.400 5.400 5	MOTA	5655	CA	SER B	332				
ATOM 5657 OG SER B 332 51.769 24.527 75.646 1.00 49.55 ATOM 5658 C SER B 332 51.780 24.507 78.451 1.00 49.56 ATOM 5659 O SER B 332 50.618 24.791 78.749 1.00 46.67 ATOM 5650 N ILE B 333 52.341 23.345 78.770 1.00 50.55 ATOM 5661 CA ILE B 333 52.259 20.945 79.376 1.00 51.93 ATOM 5662 CB ILE B 333 52.259 20.945 79.376 1.00 51.82 ATOM 5663 CG2 ILE B 333 52.259 20.945 79.376 1.00 50.29 ATOM 5664 CG1 ILE B 333 52.359 20.539 77.905 1.00 52.43 ATOM 5665 CD1 ILE B 333 52.359 20.539 77.905 1.00 52.43 ATOM 5666 C ILE B 333 52.359 20.539 77.905 1.00 52.43 ATOM 5666 C ILE B 333 52.359 20.539 77.905 1.00 52.40 ATOM 5667 O ILE B 333 52.359 20.539 77.905 1.00 52.40 ATOM 5667 O ILE B 333 52.359 20.539 77.905 1.00 52.40 ATOM 5667 O AND					332	51.975	25.751	76.329	1.00 48.75
ATOM 5658 C SER B 332 51.780 24.507 78.451 1.00 49.56 ATOM 5659 O SER B 332 50.618 24.791 78.749 1.00 50.55 ATOM 5660 N ILE B 333 52.341 23.345 78.770 1.00 50.55 ATOM 5661 CA ILE B 333 52.341 23.345 78.770 1.00 50.55 ATOM 5661 CA ILE B 333 52.259 20.945 79.376 1.00 51.82 ATOM 5663 CG2 ILE B 333 52.259 20.945 79.376 1.00 50.29 ATOM 5666 CG1 ILE B 333 52.359 20.539 77.905 1.00 52.18 ATOM 5666 CG1 ILE B 333 53.044 19.210 77.693 1.00 52.42 ATOM 5666 CG1 ILE B 333 53.044 19.210 77.693 1.00 52.42 ATOM 5666 CG1 ILE B 333 53.044 19.210 77.693 1.00 55.42 ATOM 5666 N ASP B 334 49.850 22.306 82.865 1.00 50.405 ATOM 5667 CA ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5667 CG ASP B 334 48.320 22.216 82.959 1.00 60.385 ATOM 5672 GD ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5672 GD ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5675 O ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5675 O ASP B 334 47.751 20.972 82.262 1.00 653.85 ATOM 5675 O ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5675 O ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5675 O ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5675 CG ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5675 CD ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5675 CD ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5675 CD ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5675 CD ASP B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5675 CD ASP B 335 54.522 18.717 84.4800 1.00 45.61 ATOM 5682 CD1 PHE B 335 54.522 18.717 84.4800 1.00 45.61 ATOM 5682 CD2 PHE B 335 55.901 18.843 84.605 1.00 45.95 ATOM 5685 CD2 PHE B 335 54.522 18.717 84.4800 1.00 57.29 ATOM 5686 CD PHE B 335 54.522 18.717 84.4800 1.00 57.29 ATOM 5685 CD2 PHE B 335 54.627 12.00 59.72 10.00 57.29 ATOM 5680 CD2 PHE B 335 56.651 17.860 85.247 1.00 46.02 ATOM 5685 CD2 PHE B 335 56.651 17.860 85.247 1.00 64.95 ATOM 5680 CD2 PHE B 335 56.651 17.860 85.247 1.00 64.95 ATOM 5680 CD2 PHE B 335 56.651 17.860 85.247 1.00 64.95 ATOM 5680 CD2 PHE B 335 56.661 17.860 85.247 1.00 64.95 ATOM 5680 CD2 PHE B 335 56.661 17.860 85.247 1.00 64.95								75 646	1 00 49 55
ATOM 5659 C SER B 332 51.780 24.597 78.749 1.00 49.39 ATOM 5650 N ILE B 333 52.341 23.345 78.770 1.00 50.55 ATOM 5661 CA ILE B 333 51.586 24.791 79.376 1.00 50.55 ATOM 5662 CB ILE B 333 51.586 22.326 79.488 1.00 51.82 ATOM 5663 CG2 ILE B 333 52.259 20.945 79.376 1.00 50.55 ATOM 5665 CD1 ILE B 333 52.259 20.945 79.376 1.00 50.29 ATOM 5666 CD1 ILE B 333 52.259 20.945 77.505 1.00 52.18 ATOM 5665 CD1 ILE B 333 52.259 20.945 77.905 1.00 52.18 ATOM 5666 CD1 ILE B 333 52.259 20.945 77.905 1.00 52.18 ATOM 5666 CD1 ILE B 333 52.259 20.945 77.693 1.00 55.42 ATOM 5666 CD1 ILE B 333 52.259 20.945 77.693 1.00 55.42 ATOM 5666 CD1 ILE B 333 52.259 20.945 77.693 1.00 55.42 ATOM 5666 CD1 ILE B 333 52.259 20.945 77.693 1.00 55.42 ATOM 5666 CD1 ILE B 333 52.259 20.945 77.693 1.00 55.42 ATOM 5666 CD1 ILE B 333 52.2180 23.290 81.614 1.00 50.96 ATOM 5667 CB ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5670 CB ASP B 334 48.320 22.216 82.955 1.00 63.85 ATOM 5671 CG ASP B 334 48.320 22.216 82.955 1.00 63.85 ATOM 5673 CD ASP B 334 48.017 19.833 82.710 1.00 59.71 ATOM 5673 CD ASP B 334 47.033 21.138 81.252 1.00 59.71 ATOM 5674 CA ASP B 334 49.833 20.291 81.614 1.00 54.60 ATOM 5675 CA ASP B 334 49.833 20.291 81.614 1.00 54.60 ATOM 5675 CA ASP B 334 49.833 20.291 81.614 1.00 54.60 ATOM 5676 CD PHE B 335 52.524 20.266 84.641 1.00 54.60 ATOM 5677 CA PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5682 CD PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5682 CD PHE B 335 55.901 18.843 86.605 1.00 45.61 ATOM 5685 CD PHE B 335 55.901 18.843 86.605 1.00 45.95 ATOM 5686 CD PHE B 335 54.522 18.717 84.482 1.00 46.02 ATOM 5685 CD PHE B 335 54.522 18.717 84.482 1.00 46.02 ATOM 5685 CD PHE B 335 54.522 18.717 84.482 1.00 46.02 ATOM 5685 CD PHE B 335 54.527 20.258 87.012 1.00 57.29 ATOM 5686 CD PHE B 335 56.651 17.860 85.247 1.00 64.95 ATOM 5686 CD PHE B 335 56.6651 17.860 85.247 1.00 64.95 ATOM 5689 CD GLU B 336 54.823 19.093 88.529 1.00 57.29 ATOM 5689 CD GLU B 336 54.823 19.093 88.529 1.00 57.29 ATOM 5689 CD GLU B 336 54.823 19.093 88.529 1.00 57.29	ATOM	5657	OG	SER B	332				
ATOM 5659 O SER B 332		5658	_	SER B	332	51.780	24.507	78.451	
ATOM 5660 N ILE B 333							24 791	78 749	1.00 46.67
ATOM 5661 CA ILE B 333 51.586 22.326 79.488 1.00 51.93 ATOM 5662 CB ILE B 333 52.259 20.945 79.376 1.00 51.82 ATOM 5663 CG2 ILE B 333 52.259 20.945 79.376 1.00 50.29 ATOM 5666 CG1 ILE B 333 52.359 20.539 77.905 1.00 52.18 ATOM 5665 CD1 ILE B 333 53.044 19.210 77.693 1.00 55.42 ATOM 5666 C ILE B 333 53.044 19.210 77.693 1.00 55.42 ATOM 5666 C ILE B 333 52.180 23.290 81.614 1.00 50.96 ATOM 5666 N ASP B 334 50.245 22.141 81.472 1.00 54.05 ATOM 5666 C A ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5667 CB ASP B 334 48.320 22.216 82.959 1.00 60.38 ATOM 5670 CB ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5673 OD2 ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5675 O ASP B 334 47.033 21.138 81.252 1.00 59.16 ATOM 5675 O ASP B 334 49.830 22.91 84.171 1.00 554.08 ATOM 5675 O ASP B 334 49.833 20.291 84.171 1.00 554.08 ATOM 5675 O ASP B 334 49.833 20.291 84.171 1.00 554.08 ATOM 5675 O ASP B 334 50.506 21.207 83.701 1.00 554.08 ATOM 5675 CB PHE B 335 51.816 21.307 83.906 1.00 54.08 ATOM 5675 CB PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5675 CB PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5675 CB PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5675 CB PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5682 CD1 PHE B 335 55.901 18.843 84.605 1.00 45.61 ATOM 5682 CD1 PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5682 CD1 PHE B 335 54.522 18.717 84.482 1.00 45.95 ATOM 5682 CD1 PHE B 335 54.637 16.600 85.651 1.00 45.95 ATOM 5682 CD1 PHE B 335 54.223 20.988 87.535 1.00 60.30 ATOM 5682 CD1 PHE B 335 54.223 20.988 87.535 1.00 60.30 ATOM 5682 CD1 PHE B 335 54.223 20.988 87.535 1.00 60.30 ATOM 5682 CD1 PHE B 335 54.223 20.988 87.535 1.00 60.30 ATOM 5682 CD1 PHE B 335 54.223 20.988 87.535 1.00 60.30 ATOM 5685 CD PHE B 335 54.223 20.988 87.535 1.00 60.30 ATOM 5685 CD PHE B 335 54.223 20.988 87.535 1.00 60.30 ATOM 5685 CD PHE B 335 54.223 20.988 87.535 1.00 60.30 ATOM 5685 CD PHE B 335 54.223 20.988 87.535 1.00 60.30 ATOM 5685 CD PHE B 335 54.823 20.988 87.535 1.00 60.30 ATOM 5695 CD GLU B 336 54.823 19.993 88.529 1.00 75.37 AT	ATOM	5659	0						
ATOM 5661 CA ILE B 333 51.586 22.326 79.488 1.00 51.92 ATOM 5662 CB ILE B 333 52.259 20.945 79.376 1.00 50.29 ATOM 5663 CG2 ILE B 333 51.447 19.902 80.134 1.00 50.29 ATOM 5664 CG1 ILE B 333 52.359 20.539 77.905 1.00 52.18 ATOM 5665 CD1 ILE B 333 53.044 19.210 77.693 1.00 55.42 ATOM 5666 C ILE B 333 53.044 19.210 77.693 1.00 55.42 ATOM 5666 C ILE B 333 52.180 23.290 81.614 1.00 50.49 ATOM 5667 O ILE B 333 50.245 22.141 81.472 1.00 54.05 ATOM 5668 N ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5669 CA ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5670 CB ASP B 334 447.751 20.972 82.262 1.00 63.85 ATOM 5673 OD2 ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5673 OD2 ASP B 334 48.017 19.833 82.710 1.00 59.16 ATOM 5675 O ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5675 O ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5675 O ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5676 N PHE B 335 51.816 21.307 83.906 1.00 54.08 ATOM 5678 CB PHE B 335 52.524 20.266 84.641 1.00 55.60 ATOM 5679 CG PHE B 335 53.718 19.784 83.811 1.00 55.01 ATOM 5681 CD2 PHE B 335 53.898 17.589 85.008 1.00 49.30 ATOM 5682 CE1 PHE B 335 52.524 20.266 84.641 1.00 57.29 ATOM 5685 CE2 PHE B 335 52.524 20.266 84.641 1.00 55.21 ATOM 5686 CP PHE B 335 52.524 20.266 84.641 1.00 45.95 ATOM 5686 CP PHE B 335 53.898 17.589 85.008 1.00 45.61 ATOM 5686 CP PHE B 335 52.971 20.559 86.072 1.00 67.32 ATOM 5686 CP PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 CP PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 CP PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5687 N GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5690 CG GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5691 CD GLU B 336 54.823 19.093 88.529 1.00 49.75 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 75.32 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 75.33 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 54.18 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 54.18 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 54.18	MOT	5660	N	ILE B	333	52.341	23.345		
ATOM 5662 CB ILE B 333 52.259 20.945 79.376 1.00 51.82 ATOM 5663 CG2 ILE B 333 51.447 19.902 80.134 1.00 50.29 ATOM 5666 CD1 ILE B 333 52.359 20.539 77.905 1.00 52.18 ATOM 5665 CD1 ILE B 333 51.367 22.634 80.964 1.00 51.42 ATOM 5666 CD1 ILE B 333 51.367 22.634 80.964 1.00 51.45 ATOM 5666 N ASP B 334 50.245 22.141 81.472 1.00 54.05 ATOM 5666 N ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5670 CB ASP B 334 48.320 22.216 82.959 1.00 60.38 ATOM 5671 CG ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5673 OD2 ASP B 334 47.033 21.138 81.252 1.00 59.16 ATOM 5675 O ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5676 N PHE B 335 51.816 21.307 83.701 1.00 55.47 ATOM 5676 N PHE B 335 52.524 20.266 84.641 1.00 56.408 ATOM 5677 CA PHE B 335 52.524 20.266 84.641 1.00 55.07 ATOM 5679 CB PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5678 CB PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5682 CD1 PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5682 CD1 PHE B 335 56.651 17.806 85.651 1.00 46.02 ATOM 5684 CD PHE B 335 56.651 17.806 85.247 1.00 46.02 ATOM 5685 CD1 PHE B 335 56.651 17.806 85.247 1.00 46.02 ATOM 5685 CD PHE B 335 56.651 17.806 85.247 1.00 46.02 ATOM 5685 CD PHE B 335 56.651 17.806 85.247 1.00 46.02 ATOM 5685 CD PHE B 335 56.651 17.806 85.247 1.00 46.02 ATOM 5685 CD PHE B 335 56.651 17.806 85.247 1.00 46.02 ATOM 5685 CD PHE B 335 56.651 17.806 85.247 1.00 46.02 ATOM 5685 CD PHE B 335 56.018 16.737 85.772 1.00 46.08 ATOM 5687 CD GLU B 336 54.818 21.286 87.535 1.00 63.54 ATOM 5689 CD GLU B 336 54.818 21.286 87.535 1.00 63.54 ATOM 5699 CD GLU B 336 54.818 21.286 87.535 1.00 66.35 ATOM 5699 CD GLU B 336 54.818 21.286 87.535 1.00 66.35 ATOM 5699 CD GLU B 336 54.823 19.093 88.529 1.00 75.32 ATOM 5695 CD GLU B 336 54.823 19.093 88.529 1.00 75.32 ATOM 5695 CD GLU B 336 54.823 19.093 88.529 1.00 75.32 ATOM 5695 CD GLU B 336 54.823 19.093 88.529 1.00 55.47 ATOM 5695 CD GLU B 336 54.823 19.093 88.529 1.00 54.15 ATOM 5695 CD GLU B 336 54.823 19.093 88.529 1.00 54.15 ATOM 5695 CD GLU B 336 54.823 19.093 88.529 1.00 54.15 ATOM 56						51 586	22.326	79.488	1.00 51.93
ATOM 5663 CG2 ILE B 333 51.447 19.902 80.134 1.00 50.29 ATOM 5664 CG1 ILE B 333 52.359 20.539 77.905 1.00 52.18 ATOM 5666 CD1 ILE B 333 53.044 19.210 77.693 1.00 55.42 ATOM 5666 C ILE B 333 53.044 19.210 77.693 1.00 55.42 ATOM 5666 C ILE B 333 52.180 23.290 81.614 1.00 50.59 ATOM 5666 N ASP B 334 50.245 22.141 81.472 1.00 54.05 ATOM 5669 CA ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5670 CB ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5671 CG ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5673 OD2 ASP B 334 48.017 19.833 82.710 1.00 59.16 ATOM 5673 OD2 ASP B 334 47.033 21.138 81.252 1.00 59.16 ATOM 5675 O ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5675 O ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5676 N PHE B 335 51.816 21.307 83.906 1.00 54.08 ATOM 5676 N PHE B 335 52.524 20.266 84.641 1.00 56.60 ATOM 5679 CG PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5681 CD PHE B 335 53.898 17.589 85.008 1.00 45.61 ATOM 5682 CE1 PHE B 335 55.901 18.843 84.605 1.00 45.61 ATOM 5684 CZ PHE B 335 52.971 20.559 86.072 1.00 45.72 ATOM 5685 CE2 PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 CP HE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 CP HE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 CP HE B 335 53.788 21.846 88.517 1.00 46.08 ATOM 5687 N GLUB 336 54.818 21.286 87.535 1.00 60.30 ATOM 5688 CD PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5688 CD PHE B 335 56.651 17.860 85.247 1.00 46.08 ATOM 5689 CB GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5689 CB GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5690 CG GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5690 CG GLU B 336 54.823 19.993 88.529 1.00 49.97 ATOM 5695 O GLU B 336 54.823 19.993 88.529 1.00 54.26 ATOM 5695 O GLU B 336 54.823 19.993 88.529 1.00 54.26 ATOM 5695 CB GLU B 337 56.807 20.125 88.635 1.00 54.26 ATOM 5695 CB GLU B 337 56.807 20.125 88.635 1.00 54.26 ATOM 5695 CB GLU B 337 56.807 20.125 88.635 1.00 54.26 ATOM 5695 CB GLU B 337 57.630 19.047 88.767 1.00 54.26	MOTA								1 00 51 82
ATOM 5663 CG2 ILE B 333 51.447 19.902 80.134 1.00 50.218 ATOM 5666 CG1 ILE B 333 52.359 20.539 77.905 1.00 52.18 ATOM 5666 CG1 ILE B 333 53.044 19.210 77.693 1.00 55.42 ATOM 5666 C ILE B 333 51.367 22.634 80.964 1.00 51.45 ATOM 5666 N ASP B 334 50.245 22.141 81.472 1.00 54.05 ATOM 5668 N ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5669 CA ASP B 334 49.850 22.316 82.959 1.00 60.38 ATOM 5671 CG ASP B 334 48.320 22.216 82.959 1.00 60.38 ATOM 5672 OD1 ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5673 OD2 ASP B 334 47.033 21.138 81.252 1.00 59.16 ATOM 5674 C ASP B 334 47.033 21.138 81.252 1.00 59.16 ATOM 5675 O ASP B 334 49.833 20.291 84.171 1.00 54.08 ATOM 5676 N PHE B 335 51.816 21.307 83.906 1.00 54.60 ATOM 5677 CA PHE B 335 52.524 20.266 84.641 1.00 53.01 ATOM 5678 CB PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5679 CG PHE B 335 53.898 17.589 85.008 1.00 45.61 ATOM 5681 CD2 PHE B 335 56.651 17.806 85.651 1.00 46.83 ATOM 5682 CE1 PHE B 335 55.901 18.843 84.605 1.00 46.83 ATOM 5684 CZ PHE B 335 56.651 17.660 85.651 1.00 46.02 ATOM 5685 C PHE B 335 55.901 18.843 84.605 1.00 46.02 ATOM 5686 CP PHE B 335 56.651 17.660 85.651 1.00 46.03 ATOM 5686 CP PHE B 335 56.651 17.660 85.651 1.00 45.61 ATOM 5686 CP PHE B 335 53.783 21.846 88.517 1.00 63.54 ATOM 5686 CP PHE B 335 56.651 17.660 85.651 1.00 63.54 ATOM 5686 CP PHE B 335 56.651 17.660 85.651 1.00 45.61 ATOM 5686 CP PHE B 335 56.018 16.737 85.772 1.00 46.08 ATOM 5689 CG GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5689 CG GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5699 CG GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5690 CG GLU B 336 54.823 19.093 88.529 1.00 75.32 ATOM 5691 CD GLU B 336 54.823 19.093 88.529 1.00 75.32 ATOM 5692 CG GLU B 336 54.823 19.093 88.529 1.00 75.32 ATOM 5695 CG GLU B 336 54.823 19.093 88.529 1.00 54.26 ATOM 5695 CG GLU B 336 54.823 19.093 88.524 1.00 54.26 ATOM 5695 CG GLU B 336 54.823 19.093 88.529 1.00 54.15 ATOM 5695 CG GLU B 337 56.807 20.125 88.635 1.00 54.15	ATOM	5662	CB	ILE B	333				
ATOM 5665 CG1 ILE B 333			CG2	TIE B	333	51.447	19.902	80.134	1.00 50.29
ATOM 5665 CD1 ILE B 333					222			77 905	1 00 52.18
ATOM 5666 C ILE B 333	MOTA	5664	CG1						
ATOM 5666 C ILE B 333 51.367 22.634 80.964 1.00 51.45 ATOM 5666 O ILE B 333 52.180 23.290 81.614 1.00 50.96 ATOM 5666 N ASP B 334 50.245 22.141 81.472 1.00 54.05 ATOM 5669 CA ASP B 334 49.850 22.306 82.865 1.00 58.15 ATOM 5670 CB ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5671 CG ASP B 334 47.751 20.972 82.262 1.00 63.85 ATOM 5673 OD2 ASP B 334 47.033 21.138 81.252 1.00 59.71 ATOM 5673 OD2 ASP B 334 47.033 21.138 81.252 1.00 59.71 ATOM 5675 O ASP B 334 49.833 02.991 84.171 1.00 55.47 ATOM 5676 N PHE B 335 51.816 21.307 83.906 1.00 54.08 ATOM 5676 N PHE B 335 52.524 20.266 84.641 1.00 56.60 ATOM 5677 CA PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5678 CB PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5682 CD1 PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5682 CD2 PHE B 335 55.901 18.843 84.605 1.00 45.61 ATOM 5683 CE2 PHE B 335 56.651 17.860 85.247 1.00 46.02 ATOM 5683 CE2 PHE B 335 56.018 16.737 85.772 1.00 46.02 ATOM 5685 CD2 PHE B 335 54.637 16.600 85.651 1.00 45.95 ATOM 5685 CD2 PHE B 335 56.018 16.737 85.772 1.00 46.02 ATOM 5686 CD2 PHE B 335 56.018 16.737 85.772 1.00 46.02 ATOM 5686 CD2 PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5685 CD2 PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 CD2 PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 CD2 PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 CD2 PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5687 N GLU B 336 54.223 20.983 86.229 1.00 55.21 ATOM 5691 CD GLU B 336 54.818 21.286 87.535 1.00 64.95 ATOM 5692 CB GLU B 336 53.783 21.846 88.517 1.00 64.95 ATOM 5692 CB GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5693 CC GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5695 CD GLU B 336 54.818 21.286 87.535 1.00 64.95 ATOM 5695 CD GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 CD GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 CD GLU B 336 54.823 19.093 88.529 1.00 55.426 ATOM 5695 CD GLU B 336 54.823 19.093 88.529 1.00 55.426 ATOM 5695 CD GLU B 336 54.823 19.093 88.529 1.00 55.426 ATOM 5695 CD GLU B 336 54.823 19.093 88.529 1.00 55.426	3 TOM	5665	CD1	TLE B	333	53.044	19.210	77.693	
ATOM 5666 O ILE B 333						51 367	22.634	80.964	1.00 51.45
ATOM 5668 N ASP B 334	MOTA	2000	C	ILE D	333				
ATOM 5668 N ASP B 334	MOTA	5667	0	ILE B	333 -	52.180			
ATOM 5669 CA ASP B 334				SCD B	334	50.245	22.141	81.472	1.00 54.05
ATOM 5670 CB ASP B 334	ATOM								
ATOM 5670 CB ASP B 334	ATOM	5669	CA	ASP B	334				
ATOM 5671 CG ASP B 334		5670	CB	ASP B	334	48.320	22.216	82.959	
ATOM 5672 GD1 ASP B 334							20 972	82 262	1.00 63.85
ATOM 5673 OD2 ASP B 334	ATOM	56/±	CG						
ATOM 5673 OD2 ASP B 334	MOTA	5672	GD1	ASP 3	334	48.017			1.00 55,10
ATOM 5674 C ASP B 334			-			47.033	21.138	81.252	1.00 59.71
ATOM 5675 O ASP B 334									1 00 55 47
ATOM 5676 N PHE B 335 51.816 21.307 83.906 1.00 54.60 ATOM 5677 CA PHE B 335 52.524 20.266 84.641 1.00 56.60 ATOM 5677 CB PHE B 335 52.524 20.266 84.641 1.00 53.01 ATOM 5678 CB PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5679 CG PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5681 CD2 PHE B 335 53.898 17.589 85.008 1.00 45.61 ATOM 5681 CD2 PHE B 335 55.901 18.843 84.605 1.00 46.83 ATOM 5683 CE2 PHE B 335 56.651 17.860 85.651 1.00 46.02 ATOM 5684 CZ PHE B 335 56.651 17.860 85.247 1.00 46.02 ATOM 5684 CZ PHE B 335 56.018 16.737 85.772 1.00 46.08 ATOM 5685 C PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 C PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 C PHE B 336 54.223 20.983 86.229 1.00 55.21 ATOM 5687 N GLU B 336 54.223 20.983 86.229 1.00 63.54 ATOM 5689 CB GLU B 336 54.223 20.983 86.229 1.00 64.95 ATOM 5690 CG GLU B 336 54.375 22.225 89.867 1.00 71.50 ATOM 5691 CD GLU B 336 53.783 21.846 88.517 1.00 64.95 ATOM 5692 CEI GLU B 336 53.783 21.846 88.517 1.00 64.95 ATOM 5693 OE2 GLU B 336 53.137 22.361 91.901 1.00 75.37 ATOM 5693 OE2 GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5694 C GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5697 CA GLU B 337 56.807 20.125 88.240 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.514 1.00 54.15 ATOM 5699 CB	ATOM	5674	С						
ATOM 5676 N PHE B 335 51.816 21.307 83.906 1.00 54.60 ATOM 5677 CA PHE B 335 52.524 20.266 84.641 1.00 56.60 ATOM 5678 CB PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5679 CG PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5680 CD1 PHE B 335 53.898 17.589 85.008 1.00 45.61 ATOM 5681 CD2 PHE B 335 55.901 18.843 84.605 1.00 46.83 ATOM 5682 CE1 PHE B 335 54.637 16.600 85.651 1.00 45.95 ATOM 5683 CE2 PHE B 335 56.651 17.860 85.247 1.00 46.02 ATOM 5684 CZ PHE B 335 56.018 16.737 85.772 1.00 46.08 ATOM 5685 C PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 O PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5687 N GLU B 336 54.223 20.983 86.229 1.00 57.29 ATOM 5688 CA GLU B 336 54.223 20.983 86.229 1.00 55.21 ATOM 5688 CA GLU B 336 54.223 20.983 86.229 1.00 55.21 ATOM 5690 CG GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5691 CD GLU B 336 53.783 21.846 88.517 1.00 64.95 ATOM 5692 CG GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5693 OE2 GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5694 C GLU B 336 54.818 21.286 87.535 1.00 75.37 ATOM 5694 C GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 CG GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5698 CB GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5698 CB	3 TOM	5675	0	192 B	334	49.833	20.291	84.171	
ATOM 5677 CA PHE B 335 52.524 20.266 84.641 1.00 56.60 ATOM 5678 CB PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5679 CG PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5681 CD1 PHE B 335 53.898 17.589 85.008 1.00 45.61 ATOM 5681 CD2 PHE B 335 55.901 18.843 84.605 1.00 46.83 ATOM 5682 CE1 PHE B 335 56.651 17.860 85.651 1.00 46.02 ATOM 5683 CE2 PHE B 335 56.651 17.860 85.247 1.00 46.02 ATOM 5684 CZ PHE B 335 56.018 16.737 85.772 1.00 46.08 ATOM 5685 C PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5685 C PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 CA GLU B 336 54.223 20.983 86.229 1.00 55.21 ATOM 5688 CA GLU B 336 54.223 20.983 86.229 1.00 63.54 ATOM 5692 CB GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5691 CD GLU B 336 54.375 22.225 89.867 1.00 71.50 ATOM 5692 CB GLU B 336 52.796 23.925 90.394 1.00 75.32 ATOM 5693 OE2 GLU B 336 52.796 23.925 90.394 1.00 75.32 ATOM 5694 C GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 CB GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5696 N GLU B 337 56.807 20.125 88.240 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.35 ATOM 5697 CA GLU B 337 59.101 19.457 88.635 1.00 54.35 ATOM 5697 CA GLU B 337 59.101 19.457 88.635 1.00 54.35 ATOM 5697 CA GLU B 337 59.101 19.457 88.635 1.00 54.35 ATOM 5697 CA GLU B 337 59.101 19.457 88.635 1.00 54.35 ATOM 5697 CA GLU B 337 59.101 19.457 88.635 1.00 54.35 ATOM 5697 CA GLU B 337 59.101 19.457 88.635 1.00 54.35 ATOM 5697 CA GLU B 337 59.101 19.457 88.635 1.00 54.35 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.35 ATOM 5699 CB GLU B 337 59.101 19.457 88.635 1.00 54.35 ATOM 5699 CB						51 816	21 307	83.906	1.00 54.60
ATOM 5678 CB PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5679 CG PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5680 CD1 PHE B 335 53.898 17.589 85.008 1.00 45.61 ATOM 5681 CD2 PHE B 335 55.901 18.843 84.605 1.00 46.83 ATOM 5682 CE1 PHE B 335 54.637 16.600 85.651 1.00 45.95 ATOM 5683 CE2 PHE B 335 56.651 17.860 85.247 1.00 46.08 ATOM 5683 CZ PHE B 335 56.651 17.860 85.247 1.00 46.08 ATOM 5684 CZ PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5685 C PHE B 335 52.197 20.359 86.072 1.00 57.29 ATOM 5686 CA GLU B 336 54.223 20.983 86.229 1.00 63.54 ATOM 5689 CB GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5689 CB GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5690 CB GLU B 336 54.375 22.225 89.867 1.00 75.37 ATOM 5691 CD GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5692 OE1 GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5693 OE2 GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5694 C GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5695 OE1 GLU B 336 52.796 23.925 90.394 1.00 75.32 ATOM 5695 OE1 GLU B 336 53.137 22.361 91.901 1.00 76.84 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 CB GLU B 337 57.630 19.047 88.767 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5698 CB GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5698 CB GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5698 CB GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5699 CB GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5698 CB GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5698 CB GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5698 CB GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5698 CB GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 5698 CB GLU B 337 57.630 19.047 88.635 1.00 54.26 ATOM 56	MOTA	5676	N						
ATOM 5678 CB PHE B 335 53.718 19.784 83.811 1.00 53.01 ATOM 5679 CG PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5680 CD1 PHE B 335 53.898 17.589 85.008 1.00 45.95 ATOM 5681 CD2 PHE B 335 55.901 18.843 84.605 1.00 46.83 ATOM 5682 CE1 PHE B 335 56.651 17.860 85.247 1.00 46.02 ATOM 5683 CE2 PHE B 335 56.651 17.860 85.247 1.00 46.02 ATOM 5684 CZ PHE B 335 56.018 16.737 85.772 1.00 46.08 ATOM 5685 C PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 O PHE B 335 52.971 20.378 87.012 1.00 63.54 ATOM 5687 N GLU B 336 54.223 20.983 86.229 1.00 55.21 ATOM 5688 CA GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5692 CB GLU B 336 53.783 21.846 88.517 1.00 64.95 ATOM 5690 CG GLU B 336 53.783 21.846 88.517 1.00 64.95 ATOM 5691 CD GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5692 OE1 GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5693 OE2 GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5693 OE2 GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5693 OE2 GLU B 336 53.137 22.361 91.901 1.00 76.84 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5693 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5693 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5693 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5693 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5693 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5693 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5693 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5693 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5693 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5693 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5693 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5693 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 5693 CB GLU B 337 57.630 19.047 88.635 1.00 54.28 ATOM 569	MOTIC	5677	CA	PHE B	335	52.524	20.266		
ATOM 5679 CG PHE B 335 54.522 18.717 84.482 1.00 49.30 ATOM 5680 CD1 PHE B 335 53.898 17.589 85.008 1.00 45.61 ATOM 5681 CD2 PHE B 335 55.901 18.843 84.605 1.00 46.83 ATOM 5682 CE1 PHE B 335 54.637 16.600 85.651 1.00 46.02 ATOM 5683 CE2 PHE B 335 56.651 17.860 85.247 1.00 46.02 ATOM 5684 CZ PHE B 335 56.018 16.737 85.772 1.00 46.02 ATOM 5685 C PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5685 C PHE B 335 52.197 20.378 87.012 1.00 63.54 ATOM 5687 N GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5688 CA GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5690 CB GLU B 336 54.375 22.225 89.867 1.00 71.50 ATOM 5691 CD GLU B 336 54.375 22.225 89.867 1.00 75.37 ATOM 5692 OE1 GLU B 336 52.796 23.925 90.394 1.00 75.32 ATOM 5693 OE2 GLU B 336 52.796 23.925 90.394 1.00 75.32 ATOM 5693 OE2 GLU B 336 53.137 22.361 91.901 1.00 76.84 ATOM 5693 OE2 GLU B 336 54.818 20.058 88.146 1.00 55.66 ATOM 5693 OE2 GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5697 CA GLU B 337 56.807 20.125 88.240 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5692 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 569						53.718	19.784	83.811	1.00 53.01
ATOM 568C CD1 PHE B 335									1 00 49 30
ATOM 5681 CD2 PHE B 335	ATOM	5679							1.00 15.55
ATOM 5681 CD2 PHE B 335 55.901 18.843 84.605 1.00 46.83 ATOM 5682 CE1 PHE B 335 54.637 16.600 85.651 1.00 45.95 ATOM 5683 CE2 PHE B 335 56.651 17.860 85.247 1.00 46.02 ATOM 5684 CZ PHE B 335 56.018 16.737 85.772 1.00 46.08 ATOM 5685 C PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 O PHE B 335 52.197 20.378 87.012 1.00 63.54 ATOM 5687 N GLU B 336 54.223 20.983 86.229 1.00 55.21 ATOM 5688 CA GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5692 CB GLU B 336 54.375 22.225 89.867 1.00 71.50 ATOM 5691 CD GLU B 336 54.375 22.225 89.867 1.00 71.50 ATOM 5692 OE1 GLU B 336 52.796 23.925 90.394 1.00 75.37 ATOM 5693 OE2 GLU B 336 53.137 22.361 91.901 1.00 76.84 ATOM 5694 C GLU B 336 53.137 22.361 91.901 1.00 76.84 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5696 N GLU B 337 56.807 20.125 88.240 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5697 CA GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5697 CA GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB		5681	CDI	PHE B	335	53.898	17.589	85.008	1.00 45.01
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ATOM 5683 CE2 PHE B 335 56.651 17.860 85.247 1.00 46.02 ATOM 5684 CZ PHE B 335 56.018 16.737 85.772 1.00 46.08 ATOM 5685 C PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 O PHE B 335 52.197 20.378 87.012 1.00 63.54 ATOM 5687 N GLU B 336 54.223 20.983 86.229 1.00 55.21 ATOM 5688 CA GLU B 336 54.223 20.983 86.229 1.00 60.30 ATOM 5689 CB GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5690 CG GLU B 336 53.783 21.846 88.517 1.00 64.95 ATOM 5691 CD GLU B 336 54.375 22.225 89.867 1.00 71.50 ATOM 5692 OE1 GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5693 OE2 GLU B 336 52.796 23.925 90.394 1.00 75.32 ATOM 5693 OE2 GLU B 336 55.485 20.058 88.146 1.00 55.66 ATOM 5694 C GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5696 N GLU B 337 56.807 20.125 88.240 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.36 ATOM 5693 CB GLU B 337 57.630 19.047 88.767 1.00 54.36 ATOM 5693 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5693 CB	ATCM	2087			כננ ו				
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ATOM 5685 C PHE B 335 52.971 20.559 86.072 1.00 57.29 ATOM 5686 O PHE B 335 52.197 20.378 87.012 1.00 63.54 ATOM 5687 N GLU B 336 54.223 20.983 86.229 1.00 55.21 ATOM 5688 CA GLU B 336 54.818 21.286 87.535 1.00 60.30 ATOM 5629 CB GLU B 336 53.783 21.846 88.517 1.00 64.95 ATOM 5690 CG GLU B 336 54.375 22.225 89.867 1.00 71.50 ATOM 5691 CD GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5692 OE1 GLU B 336 52.796 23.925 90.394 1.00 75.32 ATOM 5693 OE2 GLU B 336 53.137 22.361 91.901 1.00 76.86 ATOM 5694 C GLU B 336 53.137 22.361 91.901 1.00 75.86 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5696 N GLU B 337 56.807 20.125 88.240 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5698 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 57.630 19.047 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GL	MOTA	568∔	CZ						
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ATOM 5688 CA GLU B 336 53.783 21.846 88.517 1.00 64.95 ATOM 5690 CG GLU B 336 54.375 22.225 89.867 1.00 71.50 ATOM 5691 CD GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5692 OE1 GLU B 336 52.796 23.925 90.394 1.00 75.32 ATOM 5693 OE2 GLU B 336 52.796 23.925 90.394 1.00 75.32 ATOM 5694 C GLU B 336 53.137 22.361 91.901 1.00 76.84 ATOM 5695 O GLU B 336 55.485 20.058 88.146 1.00 55.66 ATOM 5696 N GLU B 337 56.807 20.125 88.240 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5698 CB GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08				CI II E	336	54818	21.286	87.535	1.00 60.30
ATOM 5699 CG GLU B 336 54.375 22.225 89.867 1.00 71.50 ATOM 5691 CD GLU B 336 52.796 23.925 90.394 1.00 75.37 ATOM 5693 OE2 GLU B 336 52.796 23.925 90.394 1.00 75.32 ATOM 5693 OE2 GLU B 336 53.137 22.361 91.901 1.00 76.84 ATOM 5694 C GLU B 336 55.485 20.058 88.146 1.00 55.66 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5696 N GLU B 337 56.807 20.125 88.240 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5693 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5693 CB GLU B 337 59.101 19.457 88.05 51 51 51 51 51 51 51 51				GLU E					1.00 64.95
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ATOM 5691 CD GLU B 336 53.363 22.882 90.787 1.00 75.37 ATOM 5692 OE1 GLU B 336 52.796 23.925 90.394 1.00 75.32 ATOM 5693 OE2 GLU B 336 53.137 22.361 91.901 1.00 76.84 ATOM 5694 C GLU B 336 55.485 20.058 88.146 1.00 55.66 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5696 N GLU B 337 56.807 20.125 88.240 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB			CG	GLU F	3 3 3 6	54.375	22.225		1.00 /1.50
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ATOM 5694 C GLU B 336 55.485 20.058 88.146 1.00 55.66 ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5696 N GLU B 337 56.807 20.125 88.240 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08			053		336			91.901	1.00 76.84
ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5696 N GLU B 337 56.807 20.125 88.240 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08	ATCM			י פינים					1 00 55 66
ATOM 5695 O GLU B 336 54.823 19.093 88.529 1.00 49.97 ATOM 5696 N GLU B 337 56.807 20.125 88.240 1.00 54.26 ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08	ATOM	5694	С	GLU i	3 336				1.00 00.00
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ATOM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.35 ATOM 5697 CB GLU B 337 59.101 19.457 88.635 1.00 54.08 ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.15									1.00 54.26
ATCM 5697 CA GLU B 337 57.630 19.047 88.767 1.00 54.08 ATCM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.08	ATOM	5696							1 00 54 39
ATOM 5698 CB GLU B 337 59.101 19.457 88.635 1.00 54.06		5697	CA	GLU I	3 3 3 7				1.00 34.3
ATCM 5695 CB GEO D 327 60 074 18 315 88.514 1 00 54.15						59.101	19.457		
ATCM 5699 CG GLU B 337 60.074 18.315 55.314 1.00 3144								88.514	
	ATOM	5699	ÇG	GLU I	5 337	90.074	10.313		

ATOM	5700	CD	GLU B	337	59.856	17.496	87.259	1.00 48.94
			CTITE		59.958	18.049	86.142	1.00 41.06
ATOM	5701						87.391	1.00 50.23
ATOM	5702	OE2	GLU B	337	59.581	16.292		
	5703	С	GLU B	337	57.278	18.740	90.227	1.00 55.08
MOTA					57.130	19.651	91.039	1.00 54.51
ATOM	5704	0	GLU B				90.557	1.00 56.20
ATOM	5705	N	PHE B	338	57.140	17.458		
ATOM	5706	CA	PHE B	338	56.798	17.048	91.918	1.00 57.73
			PHE B		56.713	15.527	92.020	1.00 58.47
MOTA	5707	CB				15.034	93.359	1.00 63.17
ATOM	5708	CG	PHE B	338	56.231			
ATOM	5709	CD1	PHE B	338	54.882	15.096	93.696	1.00 64.86
	-		PHE B		57.129	14.526	94.293	1.00 63.51
MOTA	5710				54.434	14.656	94.943	1.00 65.25
ATOM	5711	CE1	PHE B			_		1.00 63.64
MOTA	5712	CE2	PHE B	338	56.693	14.087	95.539	
	5713	CZ	PHE B	338	55.342	14.152	95.864	1.00 66.30
ATOM			PHE B		57.836	17.539	92.918	1.00 61.85
ATOM	5714	С				17.807	94.078	1.00 58.15
ATOM	5715	0	PHE B		57.520			1.00 64.63
ATOM	5716	N	ASP B	339	59.081	17.636	92.466	
	5717	CA	ASP B	339	60.167	18.099	93.316	1.00 67.53
MOTA					61.286	17.059	93.362	1.00 67.32
ATOM	5718	CB	ASP B	333		17.524	94.174	1.00 68.13
ATOM	5719	CG	ASP B		62.474			
ATOM	5720	OD1	ASP B	339	62.280	17.909	95.346	1.00 68.68
		OD2		339	63.603	17.502	93.646	1.00 69.03
MOTA	5721		ASP D	222	60.718	19.435	92.829	1.00 69.03
MOTA	5722	С	ASP B	339			91.708	1.00 67.54
ATOM	5723	0	ASP B	339	61.211	19.545		
ATOM	5724	N	ASP B	340	60.626	20.442	93.693	1.00 72.19
			ASP B		61.088	21.797	93.402	1.00 75.20
MOTA	5725	CA			61.113	22.623	94.689	1.00 77.04
MOTA	5726	CB	ASP B					
ATOM	5727	CG	ASP E	3 4 0	59.766	22.671	95.375	-
	5728		ASP B	340	58.803	23.181	94.763	1.00 79.66
ATOM					59.668	22.194	96.525	1.00 80.53
ATOM	5729	OD2			62.464	21.856	92.751	1.00 74.82
MOTA	5730	C	ASP E				91.659	1.00 78.48
MOTA	5731	0	ASP E	3 340	62.615	22.400		
ATOM	5732	N	GLU E	3 3 4 1	63.465	21.303	93.426	1.00 74.11
	5733	CA	GLU E		64.827	21.312	92.907	1.00 76.25
ATOM					65.818	21.596	94.040	1.00 79.54
MOTA	5734	CB	GLU E			21.653	93.596	1.00 82.33
ATOM	5735	CG	GLU E		67.277			1.00 83.24
ATOM	5736	CD	GLU E	3 341	67.539	22.750	92.577	
	5737	OE I			67.333	23.937	92.910	1.00 85.25
ATOM	-				67.950	22.427	91.443	1.00 83.72
MOTA	5738	OE2				19.998	92.227	1.00 73.97
MOTA	5739	С	GLU E		65.196			1.00 77.10
MOTA	5740	0	GLU F	3 341	65.627	19.051	92.883	
ATOM	5741	И	VAL I	3 3 4 2	65.033	19.946	90.910	1.00 71.92
		CA		3 4 2	65.354	18.744	90.151	1.00 68.51
MOTA	5742		VAL	342	64.081	18.027	89.663	1.00 68.83
MOTA	5743	CB	VAL	3 3 4 2			90.837	1.00 67.57
MOTA	5744	CG:	L VAL 3	3 342	63.268	17.552		1.00 67.72
ATOM	5745	CG	VAL 1	B 342	63.255	18.969	88.806	
	5746	C	VAT. 1	B 342	66.201	19.059	88.927	1.00 65 35
MOTA			****	B 342	67.177	18.366	88.640	1.00 68.71
ATOM	5747	0			65.819	20.112	88.213	1.00 60.89
MOTA	5748	N		B 343				1.00 58.89
ATOM	5749	CA		B 343	66.514	20.520	86.998	
ATOM	5750	CB		в 343	68.024	20.636	87.223	1.00 63.48
				В 343	68.763	21.070	85.966	1.00 66.69
MOTA	5751	CG	ADP .	5 343		21.070	85.970	1.00 67.64
ATOM	5752	OD:	l ASP	B 343	70.012			1.00 65.42
ATOM	5753	OD:	2 ASP	в 343	68.089	21.420	84.973	
	5754	С	ASP	в 343	66.264	19.499	85.900	1.00 53.17
MOTA				в 343	66.993	18.516	85.766	1.00 49.70
ATOM	5755	0				19.735	85.124	
MOTA	5756	N		B 344	65.216			
ATOM	5757	CA		в 344	64.868	18.853	84.022	
	5758	СВ		В 344	63.467	18.269	84.228	
ATOM				B 344	63.317	17.367	85.452	1.00 38.59
ATCM	5759	CG			64.344	16.246	85.432	
ATOM	5760	CD		B 344				
ATOM	5761	NE		B 344	64.169		86.537	
	5762	CZ		B 344	65.078		86.905	
ATOM		MILI	1 ARG		66.234	14.331	86.259	
MOTA	5763	1413	2 220	D 344	64.830	_		
MOTA	5764		2 ARG					
ATOM	5765	С	ARG	B 344	64.910	19.660		1.00 11.10

					64 336	19.269	81.720	1.00 38.73
MOTA	5766	0	ARG B 344		64.328			1.00 42.44
MOTA	5767	N	SER B 345		65.618	20.784	82.783	
ATOM	5768	CA	SER B 345		65.740	21.677	81.637	1.00 41.74
					66.661	22.849	81.993	1.00 43.47
MOTA	5769	CB				22.388	82.351	1.00 46.96
MOTA	5770	OG	SER B 345		67.956			
MOTA	5771	С	SER B 345		66.244	20.981	80.375	1.00 36.32
	5772	Ō	SER B 345		65.840	21.333	79.273	1.00 35.70
MOTA		-			67.117	19.992	80.534	1.00 33.93
MOTA	5773	N					79.391	1.00 34.77
ATOM	5774	CA	TYR B 346		67.661	19.264		
ATOM	5775	CB	TYR B 346		68.660	18.206	79.877	1.00 36.09
	5776	CG	TYR B 346		68.054	17.146	80.774	1.00 34.27
MOTA				•	67.433	16.013	80.240	1.00 37.62
MOTA	5777	CD1					81.077	1.00 36.73
MOTA	5778	CE1	TYR B 346		66.843	15.048		_
ATOM	5779	CD2	TYR B 346		68.072	17.294	82.157	1.00 36.40
	5780	CE2	TYR B 346		67.489	16.344	82.999	1.00 36.54
ATOM					66.878	15.228	82.45-7	1.00 36.54
MOTA	5781	CZ				14.306	83.306	1.00 33.35
ATOM	5782	ОН	TYR B 346		66.310			1.00 36.26
MOTA	5783	С	TYR B 346		66.563	18.599	78.570	
	5784	0	TYR B 346		66.719	18.385	77.367	1.00 40.50
ATOM					65.445	18.282	79.214	1.00 32.72
MOTA	5785	N				17.628	78.516	1.00 35.43
MOTA	5786	ÇA	MET B 347		64.346			1.00 34.36
ATOM	5787	CB	MET B 347		63.280	17.164	79.513	
	5788	CG	MET B 347		63.819	16.292	80.635	1.00 28.32
MOTA			MET B 347		62.515	15.604	81.669	1.00 34.47
MOTA	5789	SD			61.654	17.027	82.142	1.00 39.60
ATOM	5790	CE	MET B 347					1.00 39.04
ATOM	5791	С	MET B 347		63.701	18.525	77.465	
ATOM	5792	0	MET B 347		63.060	18.029	76.540	1.00 37.38
		N	LEU B 348		63.857	19.839	77.606	1.00 39.21
MOTA	5793				63.272	20.773	76.645	1.00 40.81
MOTA	5794	CA	LEU B 348			22.058	77.339	1.00 36.87
MOTA	5795	CB	LEU B 348		62.806			
ATOM	5796	CG	LEU B 348		61.690	21.975	78.384	1.00 42.66
	5797	CD1			61.507	23.337	.79.032	1.00 43.41
MOTA					60.391	21.511	77.741	1.00 40.47
MOTA	5798	CD2				21,133	75.573	1.00 41.13
MOTA	5799	C	LEU B 348		64.289			1.00 38.93
MOTA	5800	O	LEU B 348		64.018	21.968	74.711	
ATOM	5801	N	GLU B 349		65.455	20.495	75.632	1.00 37.70
			GLU B 349		66.527	20.757	74.681	1.00 42.48
MOTA	5802	CA			67.856	20.953	75.422	1.00 45.02
MOTA	5803	CB	GLU B 349				76.493	1.00 53.82
ATOM	5804	CG	GLU B 349	l	67.834	22.035		1.00 53.02
ATOM	5805	CD	GLU B 349)	67.483	23.402	75.938	1.00 57.46
	5806	OE1			68.211	23.885	75.044	1.00 59.62
MOTA					66.480	23.993	76.397	1.00 57.91
ATOM	5807	OE2				19.638	73.664	1.00 43.57
MOTA	5808	С	GLU B 349)	66.709			1.00 41.26
ATOM	5809	0	GLU B 349)	66.577	19.849	72.459	1.00 41.20
ATOM	5810	N	THR B 350)	67.027	18.448	74.161	1.00 41.95
			THR B 350		67.264	17.299	73.298	1.00 40.02
ATOM	5811	CA	IRK B 330	,	68.689	16.775	73.504	1.00 43.08
MOTA	5812	CB	THR B 350)			74.894	1.00 41.07
ATOM	5813	OG1			68.894	16.490		1.00 41.07
ATOM	5814	CG2	THR B 350)	69.703	17.816	73.049	1.00 45.05
	5815	C	THR B 350)	66.278	16.154	73.510	1.00 37.56
ATOM			THE D 35	Ś	65.754	15.966	74.611	1.00 33.64
MOTA	5816	0	THR B 350				72.445	1.00 32.86
ATOM	5817	N	LEU B 353	L	66.043	15.391		1.00 35.00
ATOM	5818	CA	LEU B 35	Ĺ	65.126	14.260	72.475	
	5819	CB	LEU B 35		64.776	13.810	71.053	1.00 31.61
MOTA					63.709	14.601	70.312	1.00 35.31
MOTA	5820	CG	LEU B 35				68.904	1.00 37.88
ATOM	5821	CDI	LEU B 35		63.552	14.064		
ATOM	5822	CD2	LEU B 35	1	62.397	14.474	71.068	1.00 39.36
	5823	c	LEU B 35		65.662	13.065	73.240	1.00 33.33
ATOM					64.956	12.469	74.046	1.00 31.48
ATOM	5824	0	LEU B 35		CE 015	12.720	72.981	1.00 29.58
ATOM	5825	N	LYS B 35	Ċ	66.915			1.00 36.77
ATOM	5826	CA	LYS B 35	2	67.527	11.576	73.633	
	5827	CB	LYS B 35	2	68.457	10.864	72.647	1.00 34.32
ATOM			LYS B 35	2	67.777	10.563	71.326	1.00 39.29
atom	5828				68.703	9.949		
MOTA	5829		LYS B 35					
ATOM	5830		LYS B 35	2	69.110			
ATOM	5831		LYS B 35		69.831	7.905	69.516	1.00 44.15
AIUM	7071						•	

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			•			00 26 20
	5832 C	LYS B 352	68.295			1.00 36.30
ATOM			69.086	12.931	,	1.00 36.65
ATOM	5833 C	1122 5 332			75.967	1.00 30.01
MOTA	5834 N	ASP B 353				1.00 33.99
ATOM	5835 C	A ASP B 353				1.00 38.57
		B ASP B 353	67.852		. •	
MOTA	•	G ASP B 353	67.134	9.986		
MOTA			66.034	9.851	78.926	1.00 22.39
MOTA			67.679	9.078	77.649	1.00 50.42
MOTA	5839	D2 ASP B 353	70.022	10.723		1.00 35.83
MOTA	5840	ASP B 353		9.833	76.368	1.00 23.71
ATOM	5841	ASP B 353	70.189			1.00 36.36
ATOM		1 PRO B 354	70.954	11.025		1.00 38.28
		D PRO B 354	70.928	12.093		1.00 30.20
ATOM	-	CA PRO B 354	72.205	10.277	78.212	1.00 33.62
MOTA			73.003	11.104	79.213	1.00 34.46
MOTA			71.896	11.556	80.164	1.00 38.08
ATOM		CG PRO B 354	71.924	8.883	78.733	1.00 33.62
ATOM	5847	PRO B 354	70.894	8.643	79.366	1.00 24.82
ATOM	5848	O PRO B 354		7.954	78.468	1.00 31.76
MOTA	5849	N TRP B 355	72.833		78.969	1.00 30.01
ATOM		CA TRP B 355	72.635	6.611		1.00 34.02
		CB TRP B 355	73.653	5.655	78.359	1.00 34.02
ATOM		CG TRP B 355	73.025	4.378	77.910	1.00 44.37
MOTA	-		73.263	3.072	78.436	1.00 45.39
MOTA			72.418	2.177	77.734	1.00 44.31
MOTA			74.107	2.569	79.432	1.00 47.19
ATOM	3	CE3 TRP B 355	72.073	4.230	76.935	1.00 42.18
MOTA	5856	CD1 TRP B 355		2.910	76.826	1.00 37.84
ATOM	5857	NE1 TRP B 355	71.704		77.999	1.00 44.97
ATOM	5858	CZ2 TRP B 355	72.395	0.808		1.00 50.83
	5859	CZ3 TRP B 355	. 74.084	1.207	79.694	
ATOM	5860	CH2 TRP B 355	73.231	0.341	78.979	1.00 48.73
MOTA			72.819	6.685	80.485	1.00 30.87
MOTA	5861		73.622	7.474	80.981	1.00 26.93
MOTA	5862	O TRP B 355	72.061	5.880	81.218	1.00 24.96
MOTA	5863	N ARG B 356	72.147	5.848	82.671	1.00 23.57
MOTA	5864	CA ARG B 356		6:319	83.257	1.00 24.71
MOTA	5865	CB ARG B 356	70.811		82.941	1.00 23.66
MOTA	5866	CG ARG B 356	70.534	7.795		1.00 20.14
	5867	CD ARG B 356	69.067	8.212	83.055	
ATOM	5868	NE ARG B 356	68.926	9.610	82.642	1.00 20.59
MOTA		CZ ARG B 356	67.787	10.192	82.288	1.00 25.41
MOTA	5869	NH1 ARG B 356	66.644	9.508	82.287	1.00 17.01
ATOM	5870	NHI ARG B 356	67.796	11.464	81.910	1.00 20.07
ATOM	5871		72.481	4.410	83.085	1.00 26.57
MOTA	5872	C ARG B 356	71.610	3.641	83.485	1.00 23.02
MOTA	5873	O ARG B 356		4.063	82.978	1.00 23.92
ATOM	5874	N GLY B 357	73.761	2.712		1.00 25.54
ATOM	5875	CA GLY B 357	74.186			1.00 24.35
ATOM	5876	C GLY B 357	74.796	2.464		1.00 25.88
	5877	O GLY B 357	74.523	3.161		
ATOM			75.638	1.444		1.00 24.32
ATCM	5878	250	76.282	1.070		1.00 23.56
MOTA	5879		76.412	-0.441	85.924	1.00 29.26
atcm	5880	C GLY B 358	76.146			1.00 23.71
ATOM	5881	O GLY B 358	76.814			1.00 27.64
ATCM	5882	N GLU B 359	76.955			1.00 32.15
ATOM	5883	CA GLU B 359				40
ATOM	5884	CB GLU B 359	77.822			
ATOM	5885	CG GLU B 359	77.125			
		CD GLU B 359	77.844	-3.479		1.00 27.00
ATOM		OE1 GLU B 359	77.287	-3.52	91.861	
ATCM			78.959			
ATOM		OE2 GLU B 359	75.571			1.00 31.35
ATOM	5889	C GLU B 359	74.612	-		1.00 25.15
ATOM	5890	o GLU B 359				
ATOM		N VAL B 360	75.482			
ATCM		CA VAL B 360	74.23(
		CB VAL B 360	74.03			
ATOM		CG1 VAL B 360	72.76			
ATOM		CG2 VAL B 360	73.96	9 -5.67		
ATON		C VAL B 360	74.34	2 -5.78	4 88.625	
ATOM	5896		75.15		3 88.82	1.00 27.55
2003	1 5897	O AYT B 100		-	•	

ATOM .	5898	N	ARG B	361	73.553	-5.289	89.575	1.00 26.45
ATOM	5899	CA	ARG B		73.558	-5.821	90.935	1.00 28.47
ATOM	5900	CB	ARG B		72.479	-5.146	91.787	1.00 30.55
ATOM	5901	CG	ARG B		72.937	-3.877	92.485	1.00 32.61
ATOM	5902	CD	ARG B		71.749	-3.163	93.117	1.00 35.00
	5903	NE	ARG B		70.858	-2.617	92.094	1.00 30.31
MOTA	5904	CZ	ARG B		69.753	-1.925	92.350	1.00 29.45
MOTA	5905		ARG B		69.385	-1.689	93.605	1.00 18.49
ATOM	5906	MILL	ARG B	361	69.041	-1.428	91.348	1.00 30.49
ATOM ATOM	5907	C	ARG B		73.351	-7.322	91.001	1.00 30.17
	5908	0	ARG B	-	72.665	-7.910	90.168	1.00 23.60
ATOM ATOM	5909	N	LYS B		73.949	-7.922	92.022	1.00 33.09
MOTA	5910	CA	LYS B		73.864	-9.351	92.272	1.00 36.94
ATOM	5911	CB	LYS E		74.687	-9.706	93.513	1.00 40.24
ATOM	5912	CG	LYS E		76.190	-9.527	93.337	1.00 52.55
ATOM	5913	CD	LYS E		76.571	-8.126	92.849	1.00 56.65
MOTA	5914	CE	LYS E		76.149	-7.032	93.819	1.00 53.39
ATOM	5915	NZ	LYS E		76.553	-5.680	93.341	1.00 48.87
ATOM	5916	C	LYS E		72.427	-9.826	92.463	1.00 32.84
MOTA	5917	ō	LYS E		72.045	-10.867	91.938	1.00 28.27
ATOM	5918	N	GLU E		71.628	-9.075	93.215	1.00 34.67
ATOM	5919	CA	GLU E		70.245	-9.493	93.435	1.00 35.72
ATOM	5920	СВ	GLU E		69.519	-8.532	94.390	1.00 36.04
ATOM	5921	CG	GLU E	3 3 6 3	69.502	-7.077	93.977	1.00 44.81
ATOM	5922	CD	GLU E	3 3 6 3	68.859	-6.186	95.033	1.00 52.14
ATOM	5923	OE1	GLU E	3 3 6 3	67.661	-6.370	95.341	1.00 48.46
ATOM	5924	OE2	GLU E	3 3 6 3	69.562	-5.300	95.566	1.00 57.31
ATOM	5925	С	GLU E		69.501	-9.619	92.111	1.00 30.68
ATOM	5926	0	GLU E	3 3 6 3		-10.530	91.944	1.00 30.45
ATOM	5927	N	VAL E		69.784	-8.724	91.166	1.00 26.19
MOTA	5928	CA	VAL E		69.138	-8.789	89.852	1.00 24.65 1.00 23.49
MOTA	5929	CB	VAL		69.536	-7.599	88.958	1.00 23.49
MOTA	5930	-	VAL I		68.924	-7.770	87.563 89.587	1.00 21.01
MOTA	5931	CG2			69.049	-6.293 -10.083	89.144	1.00 23.19
MOTA	5932	С	VAL		69.530	-10.083	88.542	1.00 23.06
ATOM	5933	0	VAL I			-10.749	89.216	1.00 27.15
ATOM	5934	N	LYS I		70.810 71.296	-11.668	88.594	1.00 29.18
MOTA	5935	CA	LYS I		72.821	-11.758	88.704	1.00 28.61
ATOM	5936	CB	LYS		73.554	-10.617	88.030	1.00 30.27
MOTA	5937	CG	LYS			-10.768	88.154	1.00 32.58
ATOM	5938	CD	LYS		75.790	-9.587	87.516	1.00 29.13
MOTA	5939	CE	LYS I		77.271	-9.689	87.606	1.00 35.17
MOTA	5940	NZ C	LYS			-12.879	89.276	1.00 25.30
MOTA	5941 5942	o	LYS			-13.837	88.613	1.00 26.81
ATOM	5943	N		B 366		-12.831	90.604	1.00 26.10
MOTA	5944	CA	25P	B 366	69 963	-13.938	91.347	1.00 28.29
MOTA MOTA	5945	CB	ASP	В 366	70.105	-13.731	92.859	1.00 29.44
ATOM	5946	CG		в 366	71.557	-13.669	93.311	1.00 32.95
MOTA	5947		ASP		72.446	-14.099	92.551	1.00 26.37
MOTA	5948	002	ASP	в 366	71.811	-13.216	94.442	
ATOM	5949	c	ASP	B 366	68.487	-14.110	90.986	1.00 28.61
MOTA	5950	ō		B 366	68.000	-15.231	90.869	1.00 27.00
ATOM	5951	N		в 367		-13.002	90.801	1.00 28.63
MOTA	5952	CA		B 367	66.365	-13.080	90.438	1.00 27.35
ATOM	5953	CB		B 367	65.726	-11.683	90.359	1.00 27.63
ATOM	5954	OG:		B 367	65.771	-11.068	91.656	1.00 28.12
ATOM	5955	CG:		B 367	64.280	-11.786	89.890	1.00 22.94
ATOM	5956	C		B 367		-13.782	89.094	1.00 25.46
ATOM	5957	ō		B 367		-14.693	88.964	1.00 24.48
ATOM	5958	N	LEU	368		-13.361	88.092	1.00 23.33
ATOM	5959	CA		368	66.857	-13.990	86.785	
ATOM	5960	CB	LEU	B 368	67.719	-13.256	85.759	
ATOM	5961	CG	LEU	B 368	67.060	-12.070	85.046	
ATOM	5962	CD	1 LEU	B 368		-12.607	84.195	
ATOM	5963	CD:	2 LEU	B 368	66.546	-11.027	86.043	1.00 19.43
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ATOM 5966 N GLU B 369 68.212 -15.735 87.774 1.00 33.59 ATOM 5967 CA GLU B 369 68.656 -17.101 88.003 1.00 39.68 ATOM 5968 CB GLU B 369 69.736 -17.141 89.082 1.00 42.61 ATOM 5970 CD GLU B 369 71.469 -18.443 87.842 1.00 055.81 ATOM 5970 CD GLU B 369 71.469 -18.443 87.842 1.00 055.81 ATOM 5971 CD GLU B 369 72.589 -18.561 87.299 1.00 57.42 ATOM 5971 CD GLU B 369 72.589 -18.561 87.299 1.00 57.42 ATOM 5972 OEZ GLU B 369 67.190 -18.974 87.842 1.00 34.94 ATOM 5973 C GLU B 369 67.190 -18.974 87.827 1.00 32.71 ATOM 5975 N LYS B 370 65.605 -17.541 89.512 1.00 34.94 ATOM 5975 C LYS B 370 65.605 -17.541 89.512 1.00 34.92 ATOM 5977 CB LYS B 370 65.605 -17.541 89.512 1.00 34.92 ATOM 5977 CB LYS B 370 65.605 -17.541 89.512 1.00 34.92 ATOM 5978 CG LYS B 370 65.857 91.919 91.268 1.00 37.19 ATOM 5980 CE LYS B 370 65.856 -18.557 92.552 1.00 44.70 ATOM 5980 CE LYS B 370 66.804 -14.387 31.346 1.00 47.82 ATOM 5980 CE LYS B 370 66.804 -14.387 31.346 1.00 47.82 ATOM 5980 CE LYS B 370 66.804 -14.387 31.346 1.00 47.82 ATOM 5980 CE LYS B 370 66.804 -14.387 31.346 1.00 47.82 ATOM 5980 CE LYS B 370 66.804 -14.387 31.346 1.00 47.82 ATOM 5980 CE LYS B 370 66.804 -14.387 31.346 1.00 47.82 ATOM 5980 CE LYS B 370 66.804 -14.387 31.346 1.00 47.82 ATOM 5980 CE LYS B 370 66.804 -14.387 31.346 1.00 47.82 ATOM 5980 CE LYS B 370 66.804 -14.387 31.346 1.00 47.82 ATOM 5980 CE LYS B 370 66.804 -12.066 88.591 1.00 41.00 31.21 ATOM 5980 CE LYS B 371 66.804 -19.598 88.990 1.00 31.22 ATOM 5980 CE LYS B 372 64.604 -19.698 84.793 1.00 29.52 ATOM 5980 CE LYS B 372 64.604 -19.698 84.793 1.00 31.23 ATOM 5980 CE LYS B 372 64.604 -19.698 84.793 1.00 31.23 ATOM 5990 CA LYS B 372 64.604 -19.698 84.793 1.00 31.23 ATOM 5990 CA LYS B 372 64.604 -19.698 84.793 1.00 31.32 ATOM 5990 CA LYS B 372 64.604 -19.698 84.793 1.00 31.32 ATOM 5990 CA LYS B 372 64.604 -19.698 84.793 1.00 31.32 ATOM 5990 CA LYS B 372 64.604 -19.698 84.793 1.00 31.32 ATOM 5990 CA LYS B 372 64.604 -19.698 84.793 1.00 31.30 31.30 31.00 31.50 31.30 31.30 31.30 31.30 31.30 31.30 31.30 31.30 31.30 31.30 31.3	ATOM	5964	_	LEU B			-15.454		1.00 32.40 1.00 31.80
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ATOM 5972 OE2 GLU B 369						72.589	-18.561		
ATOM 5973 C GLUB 3 469 67.479 -17.954 88.442 1.00 34.94 ATOM 5976 N LYS B 370 66.805 -17.541 89.512 1.00 34.92 ATOM 5976 CA LYS B 370 66.805 -17.541 89.512 1.00 34.92 ATOM 5976 CA LYS B 370 65.656 -18.295 89.993 1.00 35.12 ATOM 5978 CG LYS B 370 65.656 -18.295 89.993 1.00 35.12 ATOM 5978 CG LYS B 370 65.656 -18.295 89.993 1.00 37.19 ATOM 5978 CG LYS B 370 66.781 -16.741 92.892 1.00 44.70 ATOM 5979 CD LYS B 370 66.804 -14.387 93.786 1.00 47.82 ATOM 5981 NZ LYS B 370 66.804 -14.387 93.786 1.00 45.41 ATOM 5982 C LYS B 370 66.804 -14.387 93.786 1.00 45.41 ATOM 5982 C LYS B 370 66.804 -14.387 93.786 1.00 45.41 ATOM 5982 C LYS B 370 66.937 -19.409 88.773 1.00 29.52 ATOM 5984 N ALA B 371 63.368 -17.274 87.153 1.00 37.19 ATOM 5986 CA ALA B 371 63.368 -17.274 87.153 1.00 37.19 ATOM 5987 C ALA B 371 63.368 -17.274 87.153 1.00 37.79 ATOM 5989 N LYS B 372 64.810 -18.644 85.759 1.00 40.46 ATOM 5989 N LYS B 372 64.810 -18.644 85.759 1.00 40.46 ATOM 5990 CA LYS B 372 64.767 -22.053 84.591 1.00 43.57 ATOM 5991 C LYS B 372 64.767 -22.053 84.591 1.00 43.57 ATOM 5993 CB LYS B 372 64.767 -22.053 84.591 1.00 43.57 ATOM 5993 CB LYS B 372 64.767 -22.053 84.591 1.00 43.57 ATOM 5993 CB LYS B 372 64.767 -22.053 84.591 1.00 43.57 ATOM 5995 CD LYS B 372 64.767 -22.053 84.591 1.00 43.57 ATOM 5995 CD LYS B 372 64.767 -22.053 84.591 1.00 43.57 ATOM 5995 CD LYS B 372 64.767 -22.053 84.591 1.00 40.51 ATOM 5995 CD LYS B 372 64.767 -22.053 84.591 1.00 40.51 ATOM 5995 CD LYS B 372 64.766 -22.464 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 64.766 -22.464 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 84.792 1.00 40.46 ATOM 5995 CD LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 8		5971		GEO B					
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ATOM 5975 N LYS B 370 66.805 -17.541 89.512 1.00 34.92 ATOM 5976 CA LYS B 370 65.66 -18.295 89.993 1.00 35.12 ATOM 5977 CB LYS B 370 65.061 -17.679 91.268 1.00 37.39 ATOM 5978 CG LYS B 370 65.061 -17.679 91.268 1.00 37.39 ATOM 5979 CD LYS B 370 66.781 -16.741 92.892 1.00 48.10 ATOM 5980 CE LYS B 370 66.804 -14.387 93.346 1.00 47.82 ATOM 5981 NZ LYS B 370 66.804 -14.387 93.786 1.00 45.41 ATOM 5982 C LYS B 370 66.804 -14.387 93.786 1.00 33.21 ATOM 5983 O LYS B 370 66.804 -14.387 93.786 1.00 33.21 ATOM 5983 O LYS B 370 64.581 -18.375 88.930 1.00 33.21 ATOM 5985 CA ALA B 371 64.390 -17.288 88.931 1.00 31.62 ATOM 5985 CA ALA B 371 63.352 -15.938 86.403 1.00 35.65 ATOM 5987 C ALA B 371 63.352 -15.938 86.403 1.00 37.19 ATOM 5987 C ALA B 371 63.572 -18.431 86.891 1.00 37.99 ATOM 5987 C ALA B 371 63.572 -18.431 86.891 1.00 37.99 ATOM 5989 CA LYS B 372 64.810 -18.644 85.759 1.00 40.10 ATOM 5999 CA LYS B 372 64.746 -21.066 85.348 1.00 43.15 ATOM 5991 C LYS B 372 64.756 -21.938 86.403 1.00 33.57 ATOM 5991 C LYS B 372 64.756 -21.938 86.403 1.00 34.45 ATOM 5991 C LYS B 372 64.756 -21.938 86.403 1.00 34.45 ATOM 5991 C LYS B 372 64.756 -21.938 86.403 1.00 34.45 ATOM 5991 C LYS B 372 64.756 -21.938 86.403 1.00 34.45 ATOM 5992 C LYS B 372 64.756 -21.938 86.403 1.00 34.357 ATOM 5993 CB LYS B 372 64.756 -21.938 86.403 1.00 34.357 ATOM 5999 CA LYS B 372 66.554 -19.694 84.517 1.00 40.16 ATOM 5999 CA LYS B 372 66.554 -19.694 84.517 1.00 40.51 ATOM 5999 CB LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5999 CB LYS B 372 66.544 -19.694 84.517 1.00 40.51 ATOM 5999 CB LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5999 CB LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5999 CB LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5999 CB LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5999 CB LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5999 CB LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5999 CB LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5999 CB LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5999 CB LYS B 372 67.099 CB LYS B 372						67.190	-18.974		
ATOM 597 CB LYS B 370 65.656 -18.299 99.993 1.00 37.39 ATOM 597 CB LYS B 370 65.687 -17.916 92.532 1.00 44.70 ATOM 5978 CG LYS B 370 65.879 -17.916 92.532 1.00 44.70 ATOM 5978 CD LYS B 370 65.879 -17.916 92.532 1.00 44.70 ATOM 5978 CD LYS B 370 66.804 -14.387 93.786 1.00 47.82 ATOM 5981 NZ LYS B 370 66.804 -14.387 93.786 1.00 33.21 ATOM 5982 C LYS B 370 66.804 -14.387 93.786 1.00 33.21 ATOM 5983 O LYS B 370 66.804 -14.387 93.786 1.00 33.21 ATOM 5983 O LYS B 370 66.804 -17.274 87.153 1.00 29.52 ATOM 5984 N ALA B 371 63.369 -17.288 88.191 1.00 31.62 ATOM 5985 CA ALA B 371 63.369 -17.274 87.153 1.00 37.19 ATOM 5987 C ALA B 371 63.369 -17.274 87.153 1.00 37.79 ATOM 5988 O ALA B 371 63.369 -17.274 87.153 1.00 37.79 ATOM 5980 N LYS B 372 64.810 -18.644 65.759 1.00 40.10 ATOM 5987 C ALA B 371 63.572 -18.431 86.181 1.00 37.79 ATOM 5990 N LYS B 372 64.766 -21.066 85.348 1.00 40.10 ATOM 5990 N LYS B 372 64.757 -22.053 84.551 1.00 43.57 ATOM 5991 C LYS B 372 64.757 -22.053 84.551 1.00 43.57 ATOM 5992 O LYS B 372 64.757 -22.053 84.551 1.00 43.57 ATOM 5993 CB LYS B 372 64.757 -22.053 84.551 1.00 43.57 ATOM 5995 CD LYS B 372 64.757 -22.053 84.551 1.00 43.57 ATOM 5995 CD LYS B 372 64.757 -22.053 84.551 1.00 43.57 ATOM 5995 CD LYS B 372 64.757 -22.053 84.551 1.00 43.57 ATOM 5995 CD LYS B 372 64.757 -22.053 84.551 1.00 43.57 ATOM 5995 CD LYS B 372 64.757 -22.053 84.551 1.00 43.57 ATOM 5995 CD LYS B 372 64.757 -22.053 84.551 1.00 43.57 ATOM 5995 CD LYS B 372 64.757 -22.053 84.551 1.00 43.57 ATOM 5995 CD LYS B 372 64.757 -22.053 84.551 1.00 40.51 ATOM 5995 CD LYS B 372 64.757 -22.053 84.551 1.00 40.51 ATOM 5995 CD LYS B 372 64.766 -21.358 86.6624 1.00 47.80 ATOM 5995 CD LYS B 372 64.757 -22.053 84.551 1.00 40.51 ATOM 5995 CD LYS B 372 64.757 -22.053 84.551 1.00 40.51 ATOM 5995 CD LYS B 372 64.757 -22.053 84.551 1.00 40.51 ATOM 5995 CD LYS B 372 64.757 -22.053 84.551 1.00 40.51 ATOM 5995 CD LYS B 372 64.654 1.99 69 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 64.757 -29.18 49.50 ATOM 5995 CD LYS B 372 64.757 -29.18 49.50 ATOM 5995 CD						66.805	-17.541		
ATOM 5977 CB LYS B 370						65.656	-18.295		
ATOM 5978 CG LYS B 370 65.879 -17.916 92.532 1.00 44.70 ATOM 5980 CE LYS B 370 66.781 -16.741 92.892 1.00 44.70 ATOM 5981 NZ LYS B 370 66.804 -14.387 93.346 1.00 47.82 ATOM 5982 C LYS B 370 66.804 -14.387 93.786 1.00 45.41 ATOM 5983 O LYS B 370 66.804 -14.387 93.786 1.00 33.21 ATOM 5983 O LYS B 370 66.804 -14.387 93.786 1.00 39.52 ATOM 5983 O LYS B 370 66.804 -14.387 93.786 1.00 33.21 ATOM 5984 N ALA B 371 64.390 -17.288 88.191 1.00 31.62 ATOM 5985 CA ALA B 371 63.368 -17.274 87.153 1.00 37.19 ATOM 5986 CE ALA B 371 63.369 -17.288 88.191 1.00 31.62 ATOM 5987 C ALA B 371 63.362 -15.938 86.403 1.00 35.65 ATOM 5988 O ALA B 371 63.572 -18.431 86.181 1.00 37.79 ATOM 5989 N ALA B 372 64.810 -18.644 85.759 1.00 40.46 ATOM 5991 C LYS B 372 64.746 -21.066 85.348 1.00 40.45 ATOM 5992 C LYS B 372 64.757 -22.053 84.591 1.00 43.57 ATOM 5993 CE LYS B 372 66.654 -19.137 85.881 1.00 43.15 ATOM 5994 CG LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5996 CE LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5996 CE LYS B 372 67.029 -18.925 83.248 1.00 20.00 ATOM 5997 NZ LYS B 372 68.352 -19.390 82.635 1.00 20.00 ATOM 5998 N ALA B 373 64.762 -22.538 86.624 1.00 47.80 ATOM 5999 CA ALA B 373 64.762 -22.538 87.239 1.00 49.71 ATOM 5998 N ALA B 373 64.762 -22.639 88.546 1.00 49.71 ATOM 6000 C ALA B 373 64.762 -22.639 88.264 1.00 47.80 ATOM 6000 C ALA B 373 64.762 -22.639 88.264 1.00 20.00 ATOM 5999 CA ALA B 373 64.762 -22.659 88.266 1.00 55.13 ATOM 6001 C ALA B 373 64.762 -22.659 88.266 1.00 55.13 ATOM 6001 C ALA B 373 64.762 -22.659 88.266 1.00 55.13 ATOM 6001 C ALA B 373 64.762 -22.659 88.266 1.00 55.13 ATOM 6002 C ALA B 373 64.762 -22.659 88.266 1.00 55.13 ATOM 6002 C ALA B 373 64.762 -22.659 88.266 1.00 55.13 ATOM 6003 CT ALA B 373 64.762 -22.659 88.266 1.00 55.13 ATOM 6003 CT ALA B 373 64.762 -22.659 88.266 1.00 55.13 ATOM 6003 CT ALA B 373 64.762 -22.659 88.266 1.00 55.13 ATOM 6003 CT ALA B 373 64.762 -22.659 88.266 1.00 20.00 ATOM 5999 CA ALA B 373 64.762 -22.659 88.266 1.00						65.061	-17.679		
ATOM 5979 CD LYS B 370 66.781 -16.741 92.82 1.00 47.82 ATOM 5980 CE LYS B 370 66.804 -14.387 93.786 1.00 47.82 ATOM 5981 NZ LYS B 370 66.804 -14.387 93.786 1.00 33.21 ATOM 5983 N ALA B 371 64.581 -18.375 88.930 1.00 33.21 ATOM 5983 N ALA B 371 64.390 -17.288 88.191 1.00 31.62 ATOM 5986 CB ALA B 371 63.392 -15.938 86.403 1.00 37.19 ATOM 5986 CB ALA B 371 63.392 -15.938 86.403 1.00 37.19 ATOM 5988 N ALA B 371 62.627 -19.137 85.838 1.00 37.79 ATOM 5988 N ALA B 371 64.810 -18.644 85.759 1.00 40.10 ATOM 5989 N LYS B 372 64.746 -21.066 85.348 1.00 43.15 ATOM 5990 CA LYS B 372 64.746 -21.066 85.348 1.00 43.15 ATOM 5993 CB LYS B 372 64.746 -21.066 85.348 1.00 43.15 ATOM 5993 CB LYS B 372 66.554 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 66.554 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 68.352 -19.390 82.635 1.00 20.00 ATOM 5995 CD LYS B 372 68.352 -19.390 82.635 1.00 20.00 ATOM 5995 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5995 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5995 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5995 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5995 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CB LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5995 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 6000 CB ALA B 373 64.762 -22.639 88.546 1.00 49.71 ATOM 6000 CB ALA B 373 64.762 -22.639 88.546 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5997 NZ LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5997 NZ LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 58.54 20.90 ATOM 5996 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00						65.879	-17.916	-	
ATOM 5981 NZ LYS B 370 66.8804 -14.387 93.786 1.00 45.41 ATOM 5982 C LYS B 370 66.8804 -14.387 93.786 1.00 33.21 ATOM 5983 O LYS B 370 66.8804 -14.387 93.786 1.00 33.21 ATOM 5983 O LYS B 370 66.8804 -17.288 88.191 1.00 31.62 ATOM 5984 N ALA B 371 63.393 -17.288 88.191 1.00 37.19 ATOM 5985 CA ALA B 371 63.392 -15.938 86.403 1.00 37.79 ATOM 5986 CB ALA B 371 63.392 -15.938 86.403 1.00 37.79 ATOM 5988 O ALA B 371 63.572 -18.431 86.181 1.00 37.79 ATOM 5988 O ALA B 371 63.572 -18.431 86.181 1.00 37.79 ATOM 5980 CA LYS B 372 64.764 -21.066 85.348 1.00 43.157 ATOM 5991 C LYS B 372 64.757 -22.053 84.591 1.00 40.46 ATOM 5991 C LYS B 372 64.757 -22.053 84.591 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 84.591 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5996 CD LYS B 372 66.854 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -22.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -22.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -22.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 69.814 -21.354 82.116 1.00 20.00 ATOM 5996 CD LYS B 372 69.814 -22.425 87.239 1.00 49.51 ATOM 6000 C ALA B 373 64.014 -22.425 87.239 1.00 49.51 ATOM 6000 C ALA B 373 64.014 -22.425 87.239 1.00 49.51 ATOM 6000 C ALA B 373 64.014 -22.425 87.239 1.00 49.51 ATOM 6000 CT ATOM 5998 N ALA B 373 64.014 -22.425 87.239 1.00 49.51 ATOM 6000 CT ATOM 5996 CD LYS B 372 69.814 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 69.814 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 69.814 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 69.814 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 69.814 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 69.814 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 69.814 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 69.814 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 69.814 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 69.814 -20.907 82.706 1.00 20.00 ATOM 5996 C				LYS B		66.781	-16.741		
ATOM 5981 NZ LYS B 370 66.5581 -18.375 88.930 1.00 33.21 ATOM 5982 C LYS B 370 63.937 -19.409 88.773 1.00 29.52 ATOM 5984 N ALA B 371 63.3937 -19.409 88.773 1.00 31.62 ATOM 5985 CA ALA B 371 63.3937 -19.409 88.773 1.00 31.62 ATOM 5986 CB ALA B 371 63.392 -15.938 86.403 1.00 37.79 ATOM 5987 C ALA B 371 63.392 -15.938 86.403 1.00 37.79 ATOM 5987 C ALA B 371 62.627 -19.137 85.838 1.00 34.46 ATOM 5989 N LYS B 372 64.746 -21.066 85.348 1.00 40.410 ATOM 5990 CA LYS B 372 64.746 -21.066 85.348 1.00 43.15 ATOM 5991 C LYS B 372 64.746 -21.066 85.348 1.00 43.15 ATOM 5992 C LYS B 372 66.554 -19.694 84.517 1.00 40.57 ATOM 5993 CB LYS B 372 66.564 -19.694 84.517 1.00 40.57 ATOM 5995 C LYS B 372 66.564 -19.694 84.517 1.00 40.57 ATOM 5995 C LYS B 372 66.564 -19.694 84.517 1.00 40.57 ATOM 5995 C LYS B 372 68.352 -19.390 82.635 1.00 20.00 ATOM 5996 CE LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5997 NZ LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5998 N ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 5998 N ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 C ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 C ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 C ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 C ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 C ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 C ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 C ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6000 C ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6000 C ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6000 C ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6000 C ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6002 C ALA B 373 62.516 -22.443 87.494 1.00 53.38 ATOM 6002 C ALA B 373 62.516 -22.443 87.494 1.00 53.38 ATOM 6002 C ALA B 373 62.516 -22.443 87.494 1.00 53.38 ATOM 6002 C ALA B 373 64.016 -2.425 87.239 1.00 49.71 ATOM 6002 C ALA B 373 64.016 -2.425 87.239 1.00 49.71 ATOM 6002 C ALA B 373 64.016 -2.425 87.99 88.269 1.00 55.31 ATOM 6002 C ALA B 373 64.016 -2.426 87.99 88.269 1.0		5980	CE	LYS B	370	65.956	-15.53/		
ATOM 5982 C LYS B 370 64.561 18.370 88.773 1.00 29.52 ATOM 5983 O LYS B 370 64.390 -17.288 88.791 1.00 31.62 ATOM 5986 CB ALA B 371 63.368 -17.274 87.153 1.00 37.19 ATOM 5986 CB ALA B 371 63.368 -17.274 87.153 1.00 37.19 ATOM 5986 CB ALA B 371 63.368 -17.274 87.153 1.00 37.19 ATOM 5986 CB ALA B 371 63.392 -15.938 86.403 1.00 37.79 ATOM 5988 O ALA B 371 62.627 -19.137 85.838 1.00 34.46 ATOM 5989 N LYS B 372 64.810 -18.644 85.759 1.00 40.46 ATOM 5990 CA LYS B 372 64.764 -21.066 85.348 1.00 43.57 ATOM 5991 C LYS B 372 64.757 -22.053 84.591 1.00 40.51 ATOM 5992 C LYS B 372 66.654 -19.694 84.591 1.00 43.57 ATOM 5995 CD LYS B 372 66.654 -19.694 84.591 1.00 43.57 ATOM 5996 CE LYS B 372 66.654 -19.694 84.591 1.00 40.51 ATOM 5996 CD LYS B 372 66.654 -19.694 84.591 1.00 40.51 ATOM 5996 CD LYS B 372 66.654 -19.694 84.591 1.00 40.51 ATOM 5996 CD LYS B 372 66.654 -19.694 84.591 1.00 40.51 ATOM 5996 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CD LYS B 372 69.814 -21.354 82.116 1.00 20.00 ATOM 5996 CD LYS B 373 64.412 -21.159 86.624 1.00 47.80 ATOM 5998 N ALA B 373 64.412 -21.159 86.624 1.00 47.80 ATOM 6000 CB ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 CB ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 CB ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 CB ALA B 373 61.844 -23.313 86.903 1.00 58.01 ATOM 6000 CB ALA B 373 61.844 -23.313 86.903 1.00 58.01 ATOM 6000 CB ALA B 373 61.844 -23.313 86.903 1.00 58.01 ATOM 6000 CB ALA B 373 61.844 -23.313 86.903 1.00 58.01 ATOM 6000 CB ALA B 373 61.844 -23.313 86.903 1.00 58.01 ATOM 6000 CB ALA B 373 61.844 -23.313 86.903 1.00 58.01 ATOM 6000 CB ALA B 373 61.844 -23.313 86.903 1.00 58.01 ATOM 6000 CB ALA B 373 61.844 -23.313 86.903 1.00 58.01 ATOM 6000 CB ALA B 373 61.844 -23.313 86.903 1.00 58.01 ATOM 6000 CB ALA B 373 61.844 -23.313 86.903 1.00 58.01 ATOM 6000 CB ALA B 373 61.844 -23.313 86.903 1.00 58.01 ATOM 6000 CB ALA B 373 61.844 -23.313 86.903 1.00 58.01 ATOM 6000 CB ALA B 373 61.844 -23.313		5981	NZ	LYS B	370	66.804	-14.38/		
ATOM 5984 N ALA B 371 ATOM 5985 CA ALA B 371 ATOM 5986 CB ALA B 371 ATOM 5987 C ALA B 371 ATOM 5988 O ALA B 371 ATOM 5988 O ALA B 371 ATOM 5989 N LYS B 372 ATOM 5990 CA LYS B 372 ATOM 5992 O LYS B 372 ATOM 5992 C LYS B 372 ATOM 5994 CB LYS B 372 ATOM 5995 CD LYS B 372 ATOM 5996 CE LYS B 372 ATOM 5997 NZ LYS B 372 ATOM 5997 NZ LYS B 372 ATOM 5998 N ALA B 373 ATOM 5999 NX LYS B 372 ATOM 5990 CL LYS B 372 ATOM 5991 C LYS B 372 ATOM 5991 C LYS B 372 ATOM 5992 O LYS B 372 ATOM 5992 O LYS B 372 ATOM 5993 CB LYS B 372 ATOM 5994 CG LYS B 372 ATOM 5995 CD LYS B 372 ATOM 5996 CE LYS B 372 ATOM 5997 NZ LYS B 372 ATOM 5997 NZ LYS B 372 ATOM 5998 N ALA B 373 ATOM 6000 CB ALA B 373 ATOM 6000 CB ALA B 373 ATOM 6001 C ALA B 373 ATOM 6002 ALA B 373 ATOM 6002 ALA B 373 ATOM 6003 OXT ALA B 373 ATOM 6004 CB ALA B 373 ATOM 6005 OX ALA B 373 ATOM 6006 CB ALA B 373 ATOM 6007 CB ALA B 373 ATOM 6008 CB ALA B 373 ATOM 6009 CB ALA B 373 ATOM 6000 CB ALA B 373 ATOM 6000 CB ALA B 373 ATOM 6001 C ALA B 373 ATOM 6002 OXT ALA B 373 ATOM 6003 OXT ALA B 373 ATOM 6004 CB ALA B 373 ATOM 6005 OXT ALA B 373 ATOM 6006 CB ALA B 373 ATOM 6007 CB ALA B 373 ATOM 6008 CB ALA B 373 ATOM 6000 CB ALA B 373 ATOM 6000 CB ALA B 373 ATOM 6001 C ALA B 373 ATOM 6002 OXT ALA B 373 ATOM 6003 OXT ALA B 373 ATOM 6004 CB ALA B 373 ATOM 6005 OXT ALA B 373 ATOM 6006 CB ALA B 373 ATOM 6007 OXT ALA B 373 ATOM 6008 OXT ALA B 373 ATOM 6000 OXT ALA B 373 ATOM 6000 OXT ALA B 373 ATOM 6000 OXT ALA B 373 ATOM 6001 OXT ALA B 373 ATOM 6002 OXT ALA B 373 ATOM 6003 OXT ALA B 373 ATOM 6004 CB ALA B 373 ATOM 6005 OXT ALA B 373 ATOM 6006 CB ALA B 373 ATOM 6007 OXT ALA B 373 ATOM 6008 OXT ALA B 373 ATOM 6009 OXT ALA B 373 ATOM 6000			С			64.581	-18.373		
ATOM 5985 CA ALLA B 371 ATOM 5986 CB ALLA B 371 ATOM 5987 C ALLA B 371 ATOM 5988 O ALLA B 371 ATOM 5989 N LYS B 372 ATOM 5990 CA LYS B 372 ATOM 5991 C LYS B 372 ATOM 5991 C LYS B 372 ATOM 5992 O LYS B 372 ATOM 5993 CB LYS B 372 ATOM 5993 CD LYS B 372 ATOM 5995 CD LYS B 372 ATOM 5996 CE LYS B 372 ATOM 5996 CE LYS B 372 ATOM 5997 NZ LYS B 372 ATOM 5998 N ALLA B 371 ATOM 5998 CD LYS B 372 ATOM 5999 CA ALLA B 373 ATOM 6000 CB ALLA B 373 ATOM 6000 CB ALLA B 373 ATOM 6001 C ALLA B 373 ATOM 6001 C ALLA B 373 ATOM 6002 O ALLA B 373 ATOM 6003 OXT ALLA B 373 ATOM 6002 O TSA D 2 HETATM 2991 TN C 1 TSA D 2 HETATM 2995 CT SA D 2 HETATM 3000 C4 TSA D 2 HETATM 3000 C11 TSA D 2 HETATM 3000 C12 TSA D 2 HETATM 3000 C12 TSA D 2 HETATM 3000 C13 TSA D 2 HETATM 3000 C14 TSA D 2 HETATM 3001 C15 TSA D 2 HETATM 3001 C15 TSA D 2 HETATM 3002 C16 TSA D 2 HETATM 3001 C17 TSA D 2 HETATM 3002 C17 TSA D 2 HETATM 3003 C17 TSA D 2 HETATM 3004 C14 TSA D 2 HETATM 3006 C10 TSA D 2 HETATM 3007 C11 TSA D 2 HETATM 3007 C11 TSA D 2 HETATM 3000 C14 TSA D 2 HETATM 3001 C15 TSA D 2 HETATM 3000 C14 TSA D 2 HETATM 3001 C15 TSA D 2 HETATM 3001 C15 TSA D 2 HETATM 3002 C16 TSA D 2 HETATM 3001 C15 TSA D 2 HETATM 3002 C10 TSA D 2 HETATM 3003 C10 TSA D 2 HETATM 3004 C10 TSA D 2 HETATM 3006 C10 TSA D 2 HETATM 3007 C11 TSA D 2 HETATM 3006 C10 TSA D 2 HETATM 3007 C11 TSA D 2 HETATM 3007 C11 TSA D 2 HETATM 3006 C10 TSA D 2 HETATM 3007 C11 TSA D 2 HETATM 3006 C	MOTA			LYS B		64 390	-17 288		1.00 31.62
ATOM 5986 CB ALA B 371 63.392 -15.938 86.403 1.00 37.79 ATOM 5987 C ALA B 371 62.627 -19.137 85.838 1.00 34.46 ATOM 5980 N ALA B 371 62.627 -19.137 85.838 1.00 34.46 ATOM 5990 CA LYS B 372 64.810 -18.644 85.759 1.00 40.40 ATOM 5991 C LYS B 372 64.746 -21.066 85.348 1.00 43.15 ATOM 5991 C LYS B 372 64.757 -22.053 84.591 1.00 40.51 ATOM 5993 CB LYS B 372 64.757 -22.053 84.591 1.00 40.51 ATOM 5993 CB LYS B 372 64.757 -22.053 84.591 1.00 40.51 ATOM 5993 CD LYS B 372 64.757 -22.053 84.591 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 68.352 -19.390 82.635 1.00 20.00 ATOM 5996 CE LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5997 NZ LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5999 CA ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 CB ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 CB ALA B 373 64.762 -22.639 88.546 1.00 48.25 ATOM 6001 C ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6001 C ALA B 373 62.515 -22.443 87.494 1.00 58.01 ATOM 6003 OXT ALA B 373 62.515 -22.443 87.494 1.00 58.01 ATOM 6003 OXT ALA B 373 62.515 -22.443 87.994 1.00 58.01 ATOM 6003 OXT ALA B 373 62.515 -22.443 87.994 1.00 58.01 ATOM 6003 OXT ALA B 373 62.515 -22.443 87.994 1.00 58.01 ATOM 6003 OXT ALA B 373 62.515 -22.443 87.994 1.00 28.76 HETATM 2999 CJ TSA D 2 47.6669 8.189 109.464 1.00 28.76 HETATM 2995 NJ TSA D 2 47.6669 8.189 109.464 1.00 28.76 HETATM 2995 NJ TSA D 2 47.6669 8.189 109.464 1.00 28.57 HETATM 2995 CJ TSA D 2 47.800 7.899 101.610 1.00 667 1.00 30.57 HETATM 3000 C4 TSA D 2 53.589 1.00 101.303 1.00 25.02 HETATM 3000 C4 TSA D 2 53.589 1.00 101.303 1.00 25.02 HETATM 3000 C5 TSA D 2 53.589 1.00 101.303 1.00 25.02 HETATM 3000 C14 TSA D 2 53.589 1.00 101.303 1.00 25.02 HETATM 3000 C14 TSA D 2 53.589 1.00 101.303 1.00 25.02 HETATM 3000 C14 TSA D 2 50.668 1.00 29.05 1.00	ATOM			ALA B	3/1 271	63 368	-17.274		
ATOM 5986 CB ALA B 371 ATOM 5987 C ALA B 371 ATOM 5988 O ALA B 371 ATOM 5988 O ALA B 371 ATOM 5989 N LYS B 372 ATOM 5991 C LYS B 372 ATOM 5991 C LYS B 372 ATOM 5992 O LYS B 372 ATOM 5993 CB LYS B 372 ATOM 5994 CG LYS B 372 ATOM 5995 CD LYS B 372 ATOM 5995 CD LYS B 372 ATOM 5996 CE LYS B 372 ATOM 5996 CE LYS B 372 ATOM 5997 NZ LYS B 372 ATOM 5997 NZ LYS B 372 ATOM 5998 N ALA B 373 ATOM 5998 N ALA B 373 ATOM 5999 CA ALA B 373 ATOM 5999 CA ALA B 373 ATOM 6000 CB ALA B 373 ATOM 6000 CB ALA B 373 ATOM 6001 C ALA B 373 ATOM 6001 C ALA B 373 ATOM 6002 O ALA B 373 ATOM 6003 OXT ALA B 373 ATOM 6004 OX ALA B 373 ATOM 6005 OX ATOM 6004 OX ATOM 6004 ATOM 6005 OX ATOM 6004 ATOM 6005 OX ATOM 6005 ATOM 6006 OX ATOM 6005 ATOM 6007 ATOM 6008 OX ATOM 6006 ATOM 6009 OX ALA B 373 ATOM 6000 OX ATOM 6006 ATOM 6000 OX ALA B 373 ATOM 6000 OX ATOM 6000 ATOM 6000 OX ALA B 373 ATOM 6000 OX ATOM 6000 ATO	MOTA			ط خسند	3/1	63.300	-15.938		
ATOM 5988 O ALA B 371 62.627 -19.137 85.838 1.00 34.46 ATOM 5989 N LYS B 372 64.810 -18.644 85.759 1.00 40.10 ATOM 5991 C LYS B 372 64.746 -21.066 85.348 1.00 43.15 ATOM 5992 O LYS B 372 64.757 -22.053 84.591 1.00 40.3.57 ATOM 5993 CB LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5993 CB LYS B 372 66.654 -19.694 84.517 1.00 20.00 ATOM 5995 CD LYS B 372 66.654 -19.694 84.517 1.00 20.00 ATOM 5995 CD LYS B 372 68.352 -19.390 82.635 1.00 20.00 ATOM 5995 CD LYS B 372 68.542 -19.390 82.635 1.00 20.00 ATOM 5995 CD LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5996 CE LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5998 N ALA B 373 64.014 -21.159 86.624 1.00 47.80 ATOM 5999 CA ALA B 373 64.762 -22.639 88.546 1.00 49.71 ATOM 6000 CB ALA B 373 64.762 -22.639 88.546 1.00 49.71 ATOM 6001 C ALA B 373 64.762 -22.639 88.546 1.00 53.38 ATOM 6000 CD ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6000 CD ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 1.00 0.00 0X 57 ATOM 6003 OXT ALA B 373 62.029 -21.589 1.00 0X 60.00 0X 60						63.572	-18.431		
ATOM 5989 N LYS B 372 65.147 -19.698 84.792 1.00 40.46 ATOM 5990 CA LYS B 372 65.147 -19.698 84.792 1.00 40.46 ATOM 5991 CA LYS B 372 64.746 -21.066 85.348 1.00 43.15 ATOM 5993 CB LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5996 CE LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5996 CE LYS B 372 68.352 -19.390 82.635 1.00 20.00 ATOM 5997 NZ LYS B 372 68.352 -19.390 82.635 1.00 20.00 ATOM 5998 N ALA B 373 64.412 -21.159 86.624 1.00 47.80 ATOM 5999 CA ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 CB ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6001 C ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6001 C ALA B 373 62.515 -22.443 86.903 1.00 58.01 ATOM 6003 OXT ALA B 373 62.515 -22.443 86.903 1.00 58.01 ATOM 6003 OXT ALA B 373 62.515 -22.443 86.903 1.00 58.01 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.295 -21.899 88.269 1.00 00.00 00.00 00.00				ALA D		62.627	-19.137		
ATOM 5990 CA LYS B 372 64.746 -19.698 84.792 1.00 40.3.15 ATOM 5991 C LYS B 372 64.757 -22.053 84.591 1.00 43.57 ATOM 5993 CB LYS B 372 64.757 -22.053 84.591 1.00 43.57 ATOM 5994 CG LYS B 372 66.654 -19.694 84.517 1.00 40.51 1.00 40.51 1.00 40.51 1.00 40.57 ATOM 5995 CD LYS B 372 67.029 -18.925 83.248 1.00 20.00 ATOM 5996 CE LYS B 372 68.352 -19.390 82.635 1.00 20.00 ATOM 5997 NZ LYS B 372 68.352 -19.390 82.635 1.00 20.00 ATOM 5998 N ALA B 373 64.412 -21.354 82.116 1.00 20.00 ATOM 5999 CA ALA B 373 64.412 -21.354 82.116 1.00 47.80 47.80 47.70 6000 CB ALA B 373 64.412 -21.159 86.624 1.00 47.80 48.25 ATOM 6001 C ALA B 373 64.762 -22.639 88.546 1.00 48.25 ATOM 6001 C ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6003 OXT ALA B 373 62.515 -22.443 87.494 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 0.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -22.443 87.494 1.00 52.59 ATOM 6003 OXT ALA B 373 62.029 -22.443 87.494 1.00 52.59 ATOM 6003 OXT		-				54.810	-18.644		
ATOM 5991 C LYS B 372 64.746 -21.066 85.348 1.00 43.57 ATOM 5992 O LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5993 CB LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5995 CD LYS B 372 68.552 -19.390 82.635 1.00 20.00 ATOM 5996 CE LYS B 372 68.552 -19.390 82.635 1.00 20.00 ATOM 5997 NZ LYS B 372 68.554 -20.907 82.706 1.00 20.00 ATOM 5998 N ALA B 373 64.014 -21.354 82.116 1.00 20.00 ATOM 5999 CA ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 CB ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6001 C ALA B 373 64.014 -22.425 87.494 1.00 53.38 ATOM 6001 C ALA B 373 64.060 9.211 0.00 58.01 ATOM 6002 O ALA B 373 64.960 9.211 109.302 1.00 58.01 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 HETATM 2991 CT TSA D 2 49.660 9.211 109.302 1.00 28.76 HETATM 2993 N1 TSA D 2 49.952 6.981 108.340 1.00 25.81 HETATM 2995 N2 TSA D 2 52.458 5.101 101.667 1.00 30.57 HETATM 2998 C2 TSA D 2 49.952 6.981 108.340 1.00 25.81 HETATM 2999 C3 TSA D 2 53.013 -1.329 101.259 1.00 30.57 HETATM 2999 C3 TSA D 2 53.013 -1.329 101.259 1.00 30.57 HETATM 3000 C4 TSA D 2 53.589 1.080 101.303 1.00 25.02 HETATM 3000 C5 TSA D 2 53.589 1.00 101.303 1.00 25.02 HETATM 3000 C6 TSA D 2 53.589 1.00 101.303 1.00 25.92 HETATM 3000 C6 TSA D 2 53.589 1.00 101.303 1.00 25.99 HETATM 3000 C10 TSA D 2 50.052 5.421 103.338 1.00 28.47 HETATM 3000 C10 TSA D 2 49.660 5.357 104.279 100 29.95 HETATM 3000 C10 TSA D 2 49.660 5.357 104.279 100 29.95 HETATM 3000 C11 TSA D 2 49.660 5.357 104.279 100 29.95 HETATM 3000 C12 TSA D 2 49.660 5.357 104.279 100 29.90 HETATM 3000 C13 TSA D 2 49.660 5.357 104.279 100 29.90 HETATM 3001 C15 TSA D 2 49.660 5.357 104.279 100 29.90 HETATM 3001 C15 TSA D 2 49.660 5.357 104.279 100 29.90 HETATM 3001 C15 TSA D 2 49.660 5.357 104.279 100 29.90 HETATM 3001 C15 TSA D 2 49.660 5.357 104.279 100 29.90 HETATM 3001 C15 TSA D 2 49.660 5.357 104.279 100 29.90 HETATM 3001 C14 TSA D 2 49.660 5.357 104.279 100 29.90 HETATM 3001 C14 TSA D 2 49.660 5.357 104.279 100 29.90 HETATM 3001						65.147	-19.698		1.00 40.46
ATOM 5992 O LYS B 372 64.757 -22.053 84.591 1.00 40.51 ATOM 5995 CB LYS B 372 66.654 -19.694 84.517 1.00 40.51 ATOM 5996 CE LYS B 372 68.584 -20.907 82.706 1.00 20.00 ATOM 5995 CD LYS B 372 68.584 -20.907 82.706 1.00 20.00 ATOM 5997 NZ LYS B 372 68.584 -20.907 82.706 1.00 20.00 ATOM 5998 N ALA B 373 64.412 -21.159 86.624 1.00 47.80 ATOM 5998 N ALA B 373 64.412 -21.159 86.624 1.00 47.80 ATOM 5999 CA ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 CB ALA B 373 64.762 -22.639 88.546 1.00 48.25 ATOM 6001 C ALA B 373 64.762 -22.639 88.546 1.00 49.71 ATOM 6000 O ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6001 C ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.55 ATOM 6003 OXT ALA B 373 62.55 ATOM 6003 ATOM 6003 OXT ALA B 373 62.55 ATOM						64.746	-21.066		
ATOM 5994 CB LYS B 372 66.654 -19.694 84.517 .00 20.00 ATOM 5995 CD LYS B 372 68.352 -19.390 82.635 1.00 20.00 ATOM 5996 CE LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5997 NZ LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5998 NA ALA B 373 64.412 -21.354 82.116 1.00 47.80 ATOM 5999 CA ALA B 373 64.412 -21.159 86.624 1.00 47.80 ATOM 5999 CA ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 CB ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6001 CA ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6000 ONT ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6003 ONT ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6003 ONT ALA B 373 62.515 -22.443 87.494 1.00 55.13 ATOM 6003 ONT ALA B 373 62.515 -22.443 87.494 1.00 55.13 ATOM 6003 ONT ALA B 373 62.515 -22.443 87.494 1.00 55.38 ATOM 6003 ONT ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6003 ONT ALA B 373 62.515 -22.445 87.299 1.00 55.13 ATOM 6003 ONT ALA B 373 62.515 -22.445 87.494 1.00 53.38 ATOM 6003 ONT ALA B 373 62.515 -22.445 87.494 1.00 53.38 ATOM 6003 ONT ALA B 373 62.515 -22.445 87.494 1.00 53.38 ATOM 6003 ONT ALA B 373 62.515 -22.445 87.494 1.00 53.38 ATOM 6003 ONT ALA B 373 62.515 -22.445 87.494 1.00 53.38 ATOM 6003 ONT ALA B 373 62.515 -22.445 87.494 1.00 53.38 ATOM 6003 ONT ALA B 373 62.515 -22.458 5.101 101.667 1.00 28.76 HETATM 2999 N1 TSA D 2 47.669 8.189 109.464 1.00 28.76 HETATM 2995 N1 TSA D 2 51.859 2.799 101.610 1.00 28.47 HETATM 3000 C4 TSA D 2 51.859 2.799 101.610 1.00 28.47 HETATM 3000 C5 TSA D 2 53.589 1.080 101.303 1.00 25.02 HETATM 3000 C6 TSA D 2 53.589 1.080 101.303 1.00 25.02 HETATM 3000 C6 TSA D 2 53.589 1.080 101.303 1.00 25.02 HETATM 3000 C13 TSA D 2 53.589 1.080 101.303 1.00 25.02 HETATM 3000 C14 TSA D 2 50.052 5.421 103.338 1.00 28.13 HETATM 3000 C14 TSA D 2 49.680 5.935 104.279 1.00 25.99 HETATM 3000 C14 TSA D 2 49.680 5.935 104.279 1.00 27.37 HETATM 3010 C14 TSA D 2 49.680 5.935 104.279 1.00 23.15 HETATM 3010 C14 TSA D 2 49.680 5.935 104.279 1.00 23.15 HETATM 3010 C14 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3012 C17					372	64.757	-22.053		
ATOM 5994 CG LYS B 372 67.029 -18.925 83.248 1.00 20.00 ATOM 5995 CD LYS B 372 68.552 -19.390 82.706 1.00 20.00 ATOM 5997 NZ LYS B 372 68.544 -20.907 82.706 1.00 20.00 ATOM 5997 NZ LYS B 372 69.814 -21.354 82.116 1.00 20.00 ATOM 5998 N ALA B 373 64.412 -21.159 86.624 1.00 47.80 ATOM 5999 CA ALA B 373 64.762 -22.639 88.546 1.00 49.71 ATOM 6000 CB ALA B 373 64.762 -22.639 88.546 1.00 49.71 ATOM 6000 OALA B 373 64.762 -22.639 88.546 1.00 49.71 ATOM 6000 OALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6001 C ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 58.01 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 53.254 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 53.31 1.00 23.54 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 53.31 1.00 23.54 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 53.31 1.00 23.54 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 53.31 1.00 23.54 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 53.31 1.00 23.54 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 53.31 1.00 23.54 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 53.31 1.00 23.55 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 25.99 100.10 10.00 28.76 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 53.31 ATOM 6003 OXT ALA B 373 62.					372	66.654	-19.694		
ATOM 5995 CD LYS B 372 68.352 -19.307 82.706 1.00 20.00 ATOM 5997 NZ LYS B 372 69.814 -21.354 82.116 1.00 20.00 ATOM 5998 N ALA B 373 64.412 -21.159 86.624 1.00 47.80 ATOM 5999 CA ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 CB ALA B 373 64.762 -22.639 88.546 1.00 48.25 ATOM 6001 C ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6002 O ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 HETATM 2991 CT TSA D 2 47.669 8.189 109.464 1.00 28.76 HETATM 2993 O2 TSA D 2 49.952 6.981 108.340 1.00 25.81 HETATM 2995 N1 TSA D 2 47.800 7.789 108.131 1.00 31.21 HETATM 2996 N2 TSA D 2 53.013 -1.329 101.259 1.00 30.57 HETATM 2998 C1 TSA D 2 51.859 2.799 101.610 1.00 28.47 HETATM 2999 C3 TSA D 2 51.859 2.799 101.610 1.00 28.47 HETATM 3000 C4 TSA D 2 53.589 1.080 101.303 1.00 25.02 HETATM 3000 C5 TSA D 2 52.626 0.026 101.366 1.00 23.11 HETATM 3000 C4 TSA D 2 53.589 1.080 101.303 1.00 25.02 HETATM 3000 C6 TSA D 2 53.589 1.080 101.303 1.00 25.02 HETATM 3000 C6 TSA D 2 53.589 1.080 101.303 1.00 25.99 HETATM 3000 C6 TSA D 2 53.589 1.080 101.303 1.00 25.99 HETATM 3000 C14 TSA D 2 50.052 5.421 103.338 1.00 25.09 HETATM 3000 C14 TSA D 2 50.052 5.421 103.338 1.00 25.09 HETATM 3000 C14 TSA D 2 50.052 5.421 103.338 1.00 25.99 HETATM 3000 C14 TSA D 2 50.052 5.421 103.338 1.00 25.99 HETATM 3000 C14 TSA D 2 549.680 5.693 100.864 1.00 32.05 HETATM 3000 C14 TSA D 2 549.680 5.693 100.864 1.00 32.05 HETATM 3010 C14 TSA D 2 54.438 5.681 100.023.15 HETATM 3010 C14 TSA D 2 54.438 5.681 100.023.15 HETATM 3010 C15 TSA D 2 54.438 5.681 100.023.15 HETATM 3010 C16 TSA D 2 52.044 5.680 5.693 100.864 1.00 30.24 HETATM 3011 C15 TSA D 2 54.438 5.681 100.023.15 HETATM 3012 C17 TSA D 2 52.044 5.680 5.693 100.864 1.00 30.24 HETATM 3012 C17 TSA D 2 52.044 5.680 5.693 100.864 1.00 23.15 HETATM 3010 C16 TSA D 2 52.044 5.680 5.693 100.30.24 HETATM 5000 C1 TSA F 2 50.064 0.911 85.428 5.681 1.00 23		5994	CG			67.029	-18.925		
ATOM 5996 CE LIS B 372 ATOM 5997 NZ LYS B 372 ATOM 5998 N ALA B 373 ATOM 5999 CA ALA B 373 ATOM 6000 CB ALA B 373 ATOM 6001 C ALA B 373 ATOM 6001 C ALA B 373 ATOM 6002 O ALA B 373 ATOM 6002 O ALA B 373 ATOM 6003 OXT ALA B 373 ATOM 6003 OXT ALA B 373 ATOM 6001 TSA D 2 HETATM 2991 C C TSA D 2 HETATM 2993 OZ TSA D 2 HETATM 2995 NI TSA D 2 HETATM 2995 NI TSA D 2 HETATM 2996 NZ TSA D 2 HETATM 2997 CI TSA D 2 HETATM 2997 CI TSA D 2 HETATM 2998 CZ TSA D 2 HETATM 3000 C4 HETATM 3000 C4 HETATM 3000 C5 HETATM 3000 C6 HETATM 3000 C7 HETATM 3000 C8 HETATM 3000 C9 HETATM 3000 C7 HETATM 30		_	CD			68.352	-19.390	02.033	
ATOM 5999 N ALA B 373 64.412 -21.159 86.624 1.00 47.80 ATOM 5999 CA ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 CB ALA B 373 64.762 -22.639 88.546 1.00 48.25 ATOM 6001 C ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6002 O ALA B 373 62.515 -22.443 87.494 1.00 53.38 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 32.54 HETATM 2992 O1 TSA D 2 47.669 8.189 109.464 1.00 28.76 HETATM 2993 C2 TSA D 2 49.952 6.981 108.340 1.00 25.81 HETATM 2995 N1 TSA D 2 47.800 7.789 108.131 1.00 31.21 HETATM 2995 N1 TSA D 2 53.013 -1.329 101.259 1.00 30.57 HETATM 2999 C3 TSA D 2 53.013 -1.329 101.259 1.00 28.47 HETATM 2999 C3 TSA D 2 51.859 2.799 101.610 1.00 28.47 HETATM 3000 C4 TSA D 2 51.241 0.419 101.551 1.00 21.68 HETATM 3000 C5 TSA D 2 53.589 1.080 101.363 1.00 25.02 HETATM 3000 C6 TSA D 2 53.589 1.080 101.363 1.00 25.02 HETATM 3003 C7 TSA D 2 53.589 1.080 101.363 1.00 25.02 HETATM 3004 C8 TSA D 2 53.589 1.080 101.363 1.00 25.99 HETATM 3006 C10 TSA D 2 50.052 5.421 103.338 1.00 28.13 HETATM 3006 C10 TSA D 2 49.060 5.357 104.279 1.00 29.05 HETATM 3006 C10 TSA D 2 49.060 5.357 104.279 1.00 29.05 HETATM 3006 C10 TSA D 2 49.680 5.693 100.864 1.00 32.05 HETATM 3000 C14 TSA D 2 49.680 5.693 100.864 1.00 32.05 HETATM 3010 C14 TSA D 2 49.680 5.693 100.864 1.00 32.05 HETATM 3012 C17 TSA D 2 49.680 5.693 100.864 1.00 32.05 HETATM 3012 C17 TSA D 2 47.776 4.545 104.132 1.00 30.24 HETATM 3013 C16 TSA D 2 52.044 -2.416 101.316 1.00 23.15 HETATM 3012 C17 TSA D 2 52.044 -2.416 101.316 1.00 23.15 HETATM 3012 C17 TSA D 2 52.044 -2.416 101.316 1.00 23.15 HETATM 3013 C16 TSA D 2 52.044 -2.416 101.316 1.00 23.15 HETATM 5004 ZN ZN E 1 52.949 1.842 85.681 1.00 24.72		5996	CE			68.544	-20.907		
ATOM 5999 CA ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 5999 CA ALA B 373 64.014 -22.425 87.239 1.00 49.71 ATOM 6000 CB ALA B 373 64.762 -22.639 88.546 1.00 48.25 87.00 6002 ALA B 373 62.515 -22.443 86.903 1.00 58.01 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 ATOM 6003 OXT ALA B 373 62.029 -21.589 88.269 1.00 55.13 HETATM 2991 ZN	ATOM	5997		LYS E					1.00 47.80
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HETATM 2997 C1 TSA D 2 50.907 1.769 101.666 1.00 25.57 HETATM 2998 C2 TSA D 2 51.241 0.419 101.551 1.00 21.68 HETATM 3000 C4 TSA D 2 52.626 0.026 101.366 1.00 23.11 HETATM 3001 C5 TSA D 2 53.589 1.080 101.303 1.00 25.02 HETATM 3002 C6 TSA D 2 53.218 2.408 101.418 1.00 29.24 HETATM 3003 C7 TSA D 2 53.218 2.408 101.418 1.00 29.24 HETATM 3004 C8 TSA D 2 50.108 4.726 101.996 1.00 29.05 HETATM 3005 C9 TSA D 2 50.052 5.421 103.338 1.00 28.13 HETATM 3006 C10 TSA D 2 49.060 5.357 104.279 1.00 25.99 HETATM 3006 C10 TSA D 2 49.060 5.357 104.279 1.00 25.99 HETATM 3008 C12 TSA D 2 49.315 6.155 105.504 1.00 32.05 HETATM 3008 C12 TSA D 2 48.515 6.184 106.595 1.00 27.37 HETATM 3009 C13 TSA D 2 48.855 6.994 107.756 1.00 29.02 HETATM 3010 C14 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3011 C15 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3012 C17 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3013 C16 TSA D 2 52.949 1.842 85.681 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 28.19 HETATM 6005 01 TSA F 2 50.964 0.911 85.428 1.00 30.24	HETAT	1 2996	N2		_				1.00 28.47
HETATM 2998 C2 TSA D 2 51.241 0.419 101.551 1.00 21.68 HETATM 3000 C4 TSA D 2 52.626 0.026 101.366 1.00 23.11 HETATM 3001 C5 TSA D 2 53.589 1.080 101.303 1.00 25.02 HETATM 3002 C6 TSA D 2 53.218 2.408 101.418 1.00 29.24 HETATM 3003 C7 TSA D 2 53.218 2.408 101.418 1.00 29.24 HETATM 3003 C7 TSA D 2 50.108 4.726 101.996 1.00 29.05 HETATM 3004 C8 TSA D 2 50.108 4.726 101.996 1.00 29.05 HETATM 3005 C9 TSA D 2 50.052 5.421 103.338 1.00 28.13 HETATM 3006 C10 TSA D 2 49.060 5.357 104.279 1.00 25.99 HETATM 3006 C10 TSA D 2 49.315 6.155 105.504 1.00 32.05 HETATM 3008 C12 TSA D 2 48.515 6.184 106.595 1.00 27.37 HETATM 3008 C12 TSA D 2 48.855 6.994 107.756 1.00 29.02 HETATM 3010 C14 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3011 C15 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3012 C17 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3013 C16 TSA D 2 52.949 1.842 85.681 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 24.72 HETATM 6005 01 TSA F 2 50.964 0.911 85.428 1.00 30.24	HETATI	1 2997						101.666	1.00 25.57
HETATM 3000 C4 TSA D 2 52.626 0.026 101.366 1.00 23.11 HETATM 3001 C5 TSA D 2 53.589 1.080 101.303 1.00 25.02 HETATM 3002 C6 TSA D 2 53.218 2.408 101.418 1.00 29.24 HETATM 3003 C7 TSA D 2 51.572 4.261 101.734 1.00 32.98 HETATM 3004 C8 TSA D 2 50.108 4.726 101.996 1.00 29.05 HETATM 3005 C9 TSA D 2 50.052 5.421 103.338 1.00 28.13 HETATM 3006 C10 TSA D 2 49.060 5.357 104.279 1.00 25.99 HETATM 3007 C11 TSA D 2 49.315 6.155 105.504 1.00 32.05 HETATM 3008 C12 TSA D 2 48.515 6.184 106.595 1.00 27.37 HETATM 3008 C12 TSA D 2 48.855 6.994 107.756 1.00 29.02 HETATM 3010 C14 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3011 C15 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3012 C17 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3013 C16 TSA D 2 52.949 1.842 85.681 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 24.72 HETATM 6005 01 TSA F 2 50.964 0.911 85.428 1.00 30.24	HETAT	M 2998						101.551	1.00 21.68
HETATM 3000 C5 TSA D 2 53.589 1.080 101.303 1.00 25.02 HETATM 3001 C5 TSA D 2 53.218 2.408 101.418 1.00 29.24 HETATM 3003 C7 TSA D 2 51.572 4.261 101.734 1.00 32.98 HETATM 3004 C8 TSA D 2 50.108 4.726 101.996 1.00 29.05 HETATM 3005 C9 TSA D 2 50.052 5.421 103.338 1.00 28.13 HETATM 3006 C10 TSA D 2 49.060 5.357 104.279 1.00 25.99 HETATM 3007 C11 TSA D 2 49.315 6.155 105.504 1.00 32.05 HETATM 3008 C12 TSA D 2 48.515 6.184 106.595 1.00 27.37 HETATM 3009 C13 TSA D 2 48.855 6.994 107.756 1.00 29.02 HETATM 3010 C14 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3011 C15 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3012 C17 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3013 C16 TSA D 2 52.949 1.842 85.681 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 28.19 HETATM 6005 01 TSA F 2 50.964 0.911 85.428 1.00 30.24	HETAT	M 2999						101.366	1.00 23.11
HETATM 3002 C6 TSA D 2 53.218 2.408 101.418 1.00 29.24 HETATM 3003 C7 TSA D 2 51.572 4.261 101.734 1.00 32.98 HETATM 3004 C8 TSA D 2 50.108 4.726 101.996 1.00 29.05 HETATM 3005 C9 TSA D 2 50.052 5.421 103.338 1.00 28.13 HETATM 3006 C10 TSA D 2 49.060 5.357 104.279 1.00 25.99 HETATM 3007 C11 TSA D 2 49.315 6.155 105.504 1.00 32.05 HETATM 3008 C12 TSA D 2 48.515 6.184 106.595 1.00 27.37 HETATM 3009 C13 TSA D 2 48.855 6.994 107.756 1.00 29.02 HETATM 3010 C14 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3011 C15 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3012 C17 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3013 C16 TSA D 2 52.944 -2.416 101.316 1.00 23.45 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 24.72 HETATM 6005 01 TSA F 2 50.964 0.911 85.428 1.00 24.72	HETAT	M 3000			_		1.080	101.303	1.00 25.02
HETATM 3003 C7 TSA D 2 51.572 4.261 101.734 1.00 32.98 HETATM 3004 C8 TSA D 2 50.108 4.726 101.996 1.00 29.05 HETATM 3005 C9 TSA D 2 50.052 5.421 103.338 1.00 28.13 HETATM 3006 C10 TSA D 2 49.060 5.357 104.279 1.00 25.99 HETATM 3007 C11 TSA D 2 49.315 6.155 105.504 1.00 32.05 HETATM 3008 C12 TSA D 2 48.515 6.184 106.595 1.00 27.37 HETATM 3009 C13 TSA D 2 48.855 6.994 107.756 1.00 29.02 HETATM 3010 C14 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3011 C15 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3012 C17 TSA D 2 47.776 4.545 104.132 1.00 23.45 HETATM 3013 C16 TSA D 2 52.944 -2.416 101.316 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 24.72 HETATM 6005 01 TSA F 2 50.964 0.911 85.428 1.00 30.24	HETAT	M 2005			_		3 2.408	101.418	
HETATM 3004 C8 TSA D 2 50.108 4.726 101.996 1.00 29.03 HETATM 3005 C9 TSA D 2 49.060 5.357 104.279 1.00 25.99 HETATM 3006 C10 TSA D 2 49.060 5.357 104.279 1.00 25.99 HETATM 3007 C11 TSA D 2 49.315 6.155 105.504 1.00 32.05 HETATM 3008 C12 TSA D 2 48.515 6.184 106.595 1.00 27.37 HETATM 3009 C13 TSA D 2 48.855 6.994 107.756 1.00 29.02 HETATM 3010 C14 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3011 C15 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3012 C17 TSA D 2 54.438 -1.703 101.139 1.00 23.45 HETATM 3013 C16 TSA D 2 52.944 -2.416 101.316 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 24.72 HETATM 6005 01 TSA F 2 50.964 0.911 85.428 1.00 30.24	HETAT	W 3003			_		4.261	101.734	
HETATM 3005 C9 TSA D 2 49.060 5.357 104.279 1.00 25.99 HETATM 3006 C10 TSA D 2 49.060 5.357 104.279 1.00 25.99 HETATM 3007 C11 TSA D 2 49.315 6.155 105.504 1.00 32.05 HETATM 3008 C12 TSA D 2 48.515 6.184 106.595 1.00 27.37 HETATM 3009 C13 TSA D 2 48.855 6.994 107.756 1.00 29.02 HETATM 3010 C14 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3011 C15 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3012 C17 TSA D 2 54.438 -1.703 101.139 1.00 23.45 HETATM 3013 C16 TSA D 2 52.944 -2.416 101.316 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 24.72 HETATM 6005 01 TSA F 2 50.964 0.911 85.428 1.00 30.24	HETAL	M 3004				50.10	3 4.726	101.996	
HETATM 3006 C10 TSA D 2 49.060 5.357 104.279 1.00 23.05 HETATM 3007 C11 TSA D 2 49.315 6.155 105.504 1.00 32.05 HETATM 3008 C12 TSA D 2 48.515 6.184 106.595 1.00 27.37 HETATM 3009 C13 TSA D 2 48.855 6.994 107.756 1.00 29.02 HETATM 3010 C14 TSA D 2 49.680 5.693 100.864 1.00 30.21 HETATM 3011 C15 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3012 C17 TSA D 2 54.438 -1.703 101.139 1.00 23.45 HETATM 3013 C16 TSA D 2 52.044 -2.416 101.316 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 24.72 HETATM 6005 01 TSA F 2 50.964 0.911 85.428 1.00 24.72	TETAT.	M 3005			D 2	50.05	2 5.421	103.338	
HETATM 3007 C11 TSA D 2 49.315 6.155 103.304 1.00 27.37 HETATM 3008 C12 TSA D 2 48.515 6.184 106.595 1.00 27.37 HETATM 3009 C13 TSA D 2 48.855 6.994 107.756 1.00 29.02 49.680 5.693 100.864 1.00 30.21 HETATM 3011 C15 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3012 C17 TSA D 2 54.438 -1.703 101.139 1.00 23.45 HETATM 3013 C16 TSA D 2 52.044 -2.416 101.316 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 28.19 HETATM 6005 O1 TSA F 2 50.964 0.911 85.428 1.00 24.72	HETAT	M 3006	C1	O TSA	D 2			104.2/9	
HETATM 3010 C14 TSA D 2 49.680 5.693 100.604 1.00 30.60 HETATM 3011 C15 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3012 C17 TSA D 2 54.438 -1.703 101.139 1.00 23.45 HETATM 3013 C16 TSA D 2 52.044 -2.416 101.316 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 28.19 HETATM 6005 01 TSA F 2 50.964 0.911 85.428 1.00 24.72	HETAT	м 3007	C1	1 TSA	D 2			105.504	
HETATM 3010 C14 TSA D 2 49.680 5.693 100.604 1.00 30.60 HETATM 3011 C15 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3012 C17 TSA D 2 54.438 -1.703 101.139 1.00 23.45 HETATM 3013 C16 TSA D 2 52.044 -2.416 101.316 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 28.19 HETATM 6005 01 TSA F 2 50.964 0.911 85.428 1.00 24.72	HETAT	м 3008	Cl	2 TSA	D 2			100.393	
HETATM 3010 C14 TSA D 2 47.776 4.545 104.132 1.00 30.60 HETATM 3011 C15 TSA D 2 54.438 -1.703 101.139 1.00 23.45 HETATM 3013 C16 TSA D 2 52.044 -2.416 101.316 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 24.72 HETATM 6005 O1 TSA F 2 50.964 0.911 85.428 1.00 24.72	HETAT	м 3009	C1		D 2			100.750	
HETATM 3012 C17 TSA D 2 54.138 -1.703 101.139 1.00 23.15 HETATM 3013 C16 TSA D 2 52.044 -2.416 101.316 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 24.72 HETATM 6005 O1 TSA F 2 50.964 0.911 85.428 1.00 24.72	HETAT	M 3010	Cl	4 TSA	D 2			, 100.004 ; 104 132	
HETATM 3012 C17 TSA D 2 51.034 -2.416 101.316 1.00 23.15 HETATM 3013 C16 TSA D 2 52.044 -2.416 101.316 1.00 23.15 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 28.19 HETATM 6005 O1 TSA F 2 50.964 0.911 85.428 1.00 24.72	HETAT	M 3011	C1		D 2			101.139	1.00 23.45
HETATM 3013 C16 TSA D 2 52.949 1.842 85.681 1.00 28.19 HETATM 6004 ZN ZN E 1 52.949 1.842 85.681 1.00 24.72 HETATM 6005 O1 TSA F 2 50.964 0.911 85.428 1.00 30.24	HETAT	M 3012	_ C1		D 2			5 101.316	1.00 23.15
HETATM 6004 2N 2N E 1 50.964 0.911 85.428 1.00 24.72 HETATM 6005 01 TSA F 2 50.964 0.911 85.428 1.00 30.24	HETAT	M 3013		-					1.00 28.19
HETATM 6005 OF 194 F 51 DEC 3 334 86 654 1.00 30.24	HETAT	M 5004	ZN		_			1 85.428	1.00 24.72
HETAIN 5000 OL 1511 L	HETAI	M 6005							1 1.00 30.24
	HETAT	.M. 5006	, 02			=		•	

	6007	03	TSA	F	2		51.	569	6.5	512	93.	219		27.89
HETATM		N1	TSA		2			347		221	86.	634	1.00	27.23
MTATAH		N2	TSA		2			061	11.	139	93.	713		16.24
HETATM		C1	TSA		2			443		579	93.	304	1.00	27.18
HETATM		C2	TSA		2			035		529	93.		1.00	25.98
HETATM		C3	TSA		2			227		657	93.		1.00	24.59
HETATM			TSA		2			837		971	93.		1.00	25.75
HETATM		C4 .	TSA		2			274	10.		93.		1.00	26.53
HETATM	6014	C5			2			041		869		495	1.00	28.36
HETATM		C6	TSA		2			349		405		167		25.27
HETATM		C7	TSA		2			716		006		905		24.18
HETATM	6017	C8	TSA		2	•		134		552		518		27.20
HETATM	6018	C9	TSA		2			419		807	-	616		30.21
HETATM	6019	C10			2			118		553		327		27.18
HETATM	6020	C11	TSA		2		-	762		624		409	1.00	23.47
HETATM	6021	C12	TSA		2			529		462		170		28.28
HETATM	6022	C13	TSA		2			208	_	019		994		28.83
HETATM	6023	C14	TSA TSA		2		-	013		270		863	1.00	26.16
HETATM	6024				2			699		456		883	1.00	27.37
HETATM	6025	C17			2			610	-	107	93.	679	1.00	25.36
HETATM	6020	OH2			1			391		723	88.	062	1.00	12.93
HETATM	6027	OH2			2			.595		443	83.	558	1.00	7.53
HETATM	6020	OH2		-	3			. 656			106.	749		12.33
HETATM	6025	OH2			4			.347			111.	460	1.00	14.54
HETATM	6030	OH2			5			. 523		627	76.	.224		11.14
HETATM HETATM	6033	OH2			6			.466		064	85.	. 688	1.00	22.41
HETATM	6032	OH2			7			.579	-17.	745	80.	.769	1.00	21.99
HETATM	6033	OH2			8			.344	-15.		87.	. 809	1.00	26.67
HETATM		OH2			9			.554	-14.	901	83.	.717		23.94
HETATM	6033		WAT		10			.540			122	.771		26.96
HETATM	6037		WAT		11		59	.414		497		.029		22.51
HETATM	6037	OH2			12		31	.671	18.	074	114	.616	1.00	32.15
HETATM	6030	OH2			13			.335	10.	679	117	.140	1.00	
HETATM			WAT		14		45	.565	9.	469	79	.366	1.00	
HETATM	6041	OH2			15		43	.311	8.	237		.508		26.11
HETATM	6042	OH2			16		46	.628	13.	. 883	104	.423	1.00	
HETATM	6043	OH2			17		40	.672	2.	. 507	81	.576		18.30
HETATM	6044	OH2			18		61	.830	10	. 923		.709		22.27
HETATM		OH2			19		57	.813	0	.831		.580		24.68
HETATM	6046	OH2			20		48	.885		. 660		.823		30.00
HETATM	6047	OH2			21			.382		. 352		.841		17.32
HETATM	6048	OH2			22		39	.316				.422	1.00	
HETATM	6049	OH2			23		54	.802		. 446		.346	1.00	
HETATM		OH2	LAW S	G	24			.292				.537		34.17
HETATM	6051		LAW S		25		56	.747		.830		.744	1.00	40.67
HETAT	6052		CAW S		26			.952		.79	100	.118	1.00	27.92
HETATI	6053		LAW S		27		. 31	.268		.80:		.695		24.31
HETATI	1 6054		CAW S		28		68	.342	17	.79:		.076		30.93
HETAT	6055	OH	LAW S	r G	29			.651		.985		.845		29.34
HETATI	4 6056	OH2	CAW S	ГG	30			.287		. 257		.623	1.00	22.61
HETAT	4 6057	OH2	CAW S	C G	31			.221		.462		.256		29.85
HETATI	4 6058	OH	CAW S	ГG	32			.167				.435		36.40
HETATI	4 6059	OH	CAW S	r G	33			. 657		.682		.225		0 18.70
HETAT	4 6060	OH:	2 WAT	ГG	34			.059		. 698		.805		0 30.02
HETATI	4 6061	OH:	CAW S	ГG	35			.480	_	.763		.051		0 28.03
HETATI	4 6062		2 WAT		36			.899				.976		0 26.46
HETATI	4 6063	OH:	2 WAT	r G	37			.092		.145		3.309	1.0	0 22.31
HETATI	M 6064		2 WA:		38			.194				3.878		0 30.83
HETATI	M 6065		2 WAT		39			.400		.200		3.379	1.0	0.30.98
HETAT	M 6066		2 WAS		40			1.024		.540		852	1.0	0 38.13
HETAT	M 6067		2 WA		41			5.657		.880		.402		0 29.24
HETAT	м 6068		2 WA		42			.976				692	1.0	0 46.34
HETAT	M 6069		2 WA'		43			5.533		.511		.759	1.0	0 23.11
HELYL	M 6070		2 WA'		44			.448		.833		5.306		0 27.08
HETAT	M 6071		2 WA		45		. 70	578		.183	10	5.248		0 42.42
HETAT	м 6072		2 WA		46		53	3.938	3 -9	.936	111	6.021	1.0	0 38.97
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38.458 -0.443 63.035 1.00 28.35
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            OH2 WAT G
HETATM 6073
                                                       1.00 34.46
                                        7.930 107.466
                                64.786
                        48
HETATM 6074
             OH2 WAT G
                                50.823 36.521 114.809
                                                        1.00 40.51
             OH2 WAT G
                        49
HETATM 6075
                                33.963 -10.352 68.080
                                                        1.00 39.11
                        50
HETATM 6076
             OH2 WAT G
                                                        1.00 33.30
                                71.328 -14.321
                                               86.007
             OH2 WAT G
                        51
HETATM 6077
                                                       1.00 35.75
                                                79.836
                                63.272 10.210
                        52
            OH2 WAT G
HETATM 6078
                                59.263 -12.096 94.306
46.041 10.641 76.561
                                                        1.00 29.57
            OH2 WAT G
                        53
HETATM 6079
                                                        1.00 27.97
                       54
            OH2 WAT G
HETATM 6080
                                                        1.00 24.25
                                                89.775
                                46.614 -13.620
            OH2 WAT G
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HETATM 6081
                                                89.097
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                                        0.622
                                76.600
            OH2_WAT G
                        56
HETATM 6082
                                                        1.00 34.05
                                                79.089
                                        6.439
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                       57
HETATM 6083
             OH2 WAT G
                                                        1.00 35.02
                                       11.026
                                                83.310
                                71.301
             OH2 WAT G 58
HETATM 6084
                                                81.594
                                                        1.00 33.21
                                28.188
                                        -9.956
             OH2 WAT G
                       59
HETATM 6085
                                                98.483
                                                       1.00 27.64
                                53.084
                                        20.992
                       60
             OH2 WAT G
HETATM 6086
                                                        1.00 30.30
                                        8.630 93.423
                                59.484
             OH2 WAT G 61
HETATM 6087
                                                        1.00 33.04
                                        -3.809 95.805
                                                       1.00 37.39
                                26.195
                       62
             OH2 WAT G
HETATM 6088
                                        -0.121 89.620
                       63
                                26.095
HETATM 6089
             OH2 WAT G
                                        -6.141 109.711
                                                         1.00 20.88
             OH2 WAT G 64
                                47.100
HETATM 6090
                                                       1.00 30.38
                                         0.731
                                                92.275
                                23.273
             OH2 WAT G 65
HETATM 6091
                                                        1.00 37.51
                                 45.340 -24.751
                                                72.694
                       66
HETATM 6092
             OH2 WAT G
                                                        1.00 34.63
                                33.754 16.234 111.676
                       67
             OH2 WAT G
HETATM 6093
                                                        1.00 47.11
                                        19.209 126.276
                                52.831
нетатм 6094
             OH2 WAT G
                         68
                                        16.953 111.099
                                                         1.00 26.24
                                 50.218
                        69
HETATM 6095
             OH2 WAT G
                                                        1.00 24.95
                                                70.857
                                 44.791
                                        5.844
             OH2 WAT G
                        70
HETATM 6096
                                 49.517 -18.731 82.921 1.00 29.48
                        71
             OH2 WAT G
HETATM 6097
                                       10.131 116.550 1.00 48.70
                                 76.379
             OH2 WAT G
                        72
HETATM 6098
                                        -8.086 87.873 1.00 46.35
                                 30.214
             OH2 WAT G
                         73
HETATM 6099
                                                80.458
                                                         1.00 30.80
                                 45.320
                                       12.061
                         74
HETATM 6100
             OH2 WAT G
                                                         1.00 29.04
                                                 86.249
                                         5.360
                                 72.881
             OH2 WAT G
                         75
 HETATM 6101
                                                87.252
                                                         1.00 41.96
                                 59.674 -23.046
             OH2 WAT G
                         76
 HETATM 6102
                                         7.921 100.345
                                                         1.00 26.45
                                 40.619
                         77
             OH2 WAT G
 HETATM 6103
                                 41.666 -19.477
                                                         1.00 36.27
                                                70.073
              OH2 WAT G
                         78
 HETATM 6104
                                                92.717
                                                         1.00 25.78
                                       -6.539
                                 46.408
                         79
              OH2 WAT G
 HETATM 6105
                                 35.743 -12:230 81.646
                                                         1.00 28.34
                         80
              OH2 WAT G
 HETATM 6106
                                                         1.00 41.15
                                         8.745 121.961
                                 28.268
              OH2 WAT G
                         81
 HETATM 6107
                                                         1.00 32.34
                                                71.986
                                 68.843
                                          3.154
              OH2 WAT G
                         82
 HETATM 6108
                                                85.150 1.00 24.14
                                 52.125 -11.158
                         83
 HETATM 6109
              OH2 WAT G
                                                         1.00 26.12
                                                92.264
                                        -1.773
                                 75.374
              OH2 WAT G
 HETATM 6110
                         84
                                         12.230 142.271
                                                         1.00 37.07
                                46.957
                         85
              OH2 WAT G
 HETATM 6111
                                                         1.00 55.58
                                         9.551
                                                 64.329
                                63.789
              OH2 WAT G
                         86
 HETATM 6112
                                                         1.00 58.55
                                 60.672
                                                 72.215
                                         21.185
              OH2 WAT G
                         87
 HETATM 6113
                                                         1.00 31.10
                                                 82.064
                                          9.505
                                 56.547
              OH2 WAT G
                         88
 HETATM 6114
                                                         1.00 29.70
                                         -0.876
                                                 92.250
                                 26.366
                         89
              OH2 WAT G
 HETATM 6115
                                                 80.808
                                                         1.00 32.85
                                 67.604 -16.583
                         90
              OH2 WAT G
 HETATM 6116
                                                         1.00 42.95
                                         1.899
                                                 82.068
                                 23.910
                         91
 HETATM 6117
              OH2 WAT G
                                                         1.00 30.05
                                         4.106 117.380
                                 50.032
                         92
 HET? TM 6118
              OH2 WAT G
                                                         1.00 43.59
                                         -9.492
                                                83.952
                                 26.774
              OH2 WAT G
                         93
 HET. IM 6119
                                         -0.637 113.787
                                                         1.00 40.17
                                 42.714
                         94
              OH2 WAT G
 HETAIM 5120
                                                        1.00 47.82
                                         7.989 134.170
                                 57.966
                         95
              OH2 WAT G
 HETATM 6121
                                                         1.00 36.62
                                         -3.550 119.086
                                 54.478
              OH2 WAT G
                         96
 HETATM 6122
                                 53.065 11.696 101.718
                                                         1.00 41.62
                         97
              CH2 WAT G
 HETATM 6123
                                                          1.00 45.98
                                 58.286 -23.645
                                                 68.207
                         98
 HETATM 6124
              CH2 WAT G
                                                         1.00 34.57
                                         -9.614 121.975
              OH2 WAT G 99
                                 54.855
 HETATM 6125
                                         -3.352 57.145
                                                         1.00 42.14
                                 57.408
              OH2 WAT G 100
 HETATM 6126
                                                         1.00 33.87
                                         20.353 123.667
                                 63.590
              OH2 WAT G 101
 HETATM 6127
                                                 72.392
                                                         1.00 30.23
                                 48.129 -23.143
              OH2 WAT G 102
 HETATM 6128
                                                          1.00 52.01
                                                  76.094
                                 62.834
                                         6.913
              OH2 WAT G 103
 HETATM 6129
                                                          1.00 36.29
                                          6.529
                                                  73.089
                                 34.566
              OH2 WAT G 104
  HETATM 6130
                                                         1.00 36.85
                                         20.869
                                                  67.459
              OH2 WAT G 105
                                  51.588
  HETATM 6131
                                        18.020 129.379
                                                          1.00 42.87
                                  28.160
               OH2 WAT G 106
  HETATM 6132
                                                         1.00 43.62
                                                 57.603
                                  49.082 -11.452
               OH2 WAT G 107
  HETATM 6133
                                                 93.281 1.00 41.95
                                  44.717 -8.605
               OH2 WAT G 108
  HETATM 6134
                                  67.088 -11.900 94.019 1.00 35.71
              OH2 WAT G 109
  HETATM 6135
                                                          1.00 35.40
                                  49.561 22.763 100.800
               OH2 WAT G 110
  HETATM 6136
                                                          1.00 56.20
                                  75.853 10.960 124.536
              OH2 WAT G 111
 · HETATM 6137
                                  54.383 8.930 136.095 1.00 36.40
              OH2 WAT G 112
  HETATM 6138
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· · · · · · · · · · · · · · · · · · ·	6130	OH2 WAT G 113	33	114	1.764	67.443	1.00 3	
HETATM		OH2 WAT G 114	42	618	-4.357	102.345	1.00 3	9.18
HETATM		OHZ WAI G 114	53	605	-10.816	66.281	1.00 3	
HETATM		OH2 WAT G 115			-1.010		1.00 3	
HETATM		OH2 WAT G 116				110.221	1.00 3	
HETATM		OH2 WAT G 117				110.221	1.00 2	
HETATM	6144	CH2 WAT G 118	31	. 474			1.00 3	
HETATM	6145	OH2 WAT G 119		.749	-0.616	132.457		
HETATM		OH2 WAT G 120		.921	1.089	137.137 75.105	1.00 4	
HETATM		OH2 WAT G 121	31	.081	7.617	75.105	1.00 4	0.86
HETATM		OH2 WAT G 122	35	.554	12.017	105.965	1.00 3	
HETATM	61/10	OH2 WAT G 123	41	.381	-23.534	70.872	1.00 3	
HETATM	6150	OH2 WAT G 124		.999	1.992	73.813	1.00 3	
HETAIM	6150	OH2 WAT G 125		.761	10.285	101.654	1.00 4	
HETATM		OH2 WAT G 126		.596	12.964	133.642	1.00 3	37.98
HETATM		OH2 WAT G 120		.611	5.347	136.114	1.00 4	16.39
HETATM	6123	OH2 WAT G 127		.190	12 220	124.679	1.00	30.77
HETATM	6154	OH2 WAT G 128	70	.078			1.00	
HETATM	6155	OH2 WAT G 129		.882	_4 314	125.597	1.00	
HETATM		OH2 WAT G 130	3/	020	-9.514	65.884	1.00	
HETATM		OH2 WAT G 131	45	. 636	-20.690 3.186	79.027	1.00	
HETATM	6158	OH2 WAT G 132	4/	.5/4	3.186	62.295	1.00	
HETATM	6159	OH2 WAT G 133			-18.901		1.00	
HETATM	616Ö	OH2 WAT G 134		.164	5.047			
HETATM		OH2 WAT G 135	27	.268	-0.405	122.461	1.00	
HETATM	6162	OH2 WAT G 136	54	.200	-20.155	66.212 103.626	1.00	
HETATM	6163	OH2 WAT G 137	45	.435	-10.534	103.626	1.00	
HETATM	6164	OH2 WAT G 138	31	.633	25.030	106.499	1.00	
HETATM	6165	OH2 WAT G 139		.029	-7.518	93.606	1.00	
HETATM		OH2 WAT G 140		.597	20.711	111.685	1.00	
HETAIM	6167	OH2 WAT G 141		.263	8.524	113.832	1.00	40.63
HETATM	010/	OH2 WAT G 143		387	-24.485	70.152	1.00	34.07
HETATM	9108	OH2 WAT G 144	. 23	383	-3.854	83.604	1.00	32.22
HETATM	6169		42	360	-0 710		1.00	
HETATM		OH2 WAT G 14	2.4	421	-0.710 -3.304	65.685	1.00	
HETATM	6171	OH2 WAT G 146		505	3.409	89.579		39.86
HETATM	6172	OH2 WAT G 14	31	500	10.688			31.12
HETATM	6173	OH2 WAT G 148		.963				46.65
HETATM	6174	OH2 WAT G 149			-15.085			39.22
HETATM	6175	OH2 WAT G 150	34	.695	2.391	131.273		34.09
HETATM	1 6176	OH2 WAT G 15	. 40	. 695	1.395	61.905		45.19
HETATM	6177	OH2 WAT G 15	. 00). 714	17.000	127.489		
HETATM	6178	OH2 WAT G 15		096		103.232		43.45
HETATM	6179	OH2 WAT G 15	1 28	3.074	-4.222			28.86
HETATM	6180	OH2 WAT G 15	63	3.586	-1.894	99.003 88.415		41.15
HETAT		OH2 WAT G 15	5 54	1.145	-22.222	88.415		40.92
HETAT	6182	OH2 WAT G 15	7 62	2.443	13.765	89.547		33.69
HETAT	4 6183	OH2 WAT G 15	3 58	3.832	9.798	3 101.311		31.00
TEIVIL	4 6184	OH2 WAT G 15		7.701	-5.528	3 119.322		45.00
HEIAIN	4 6105	OH2 WAT G 16	4	3.599	13.442	2 131.274	1 00	38.43
HETAT	4 5105	OH2 WAT G 16	-	3.540				51.83
HETAT	1 0180	OHZ WAT G 10	-	9.915		3 110.873	1.00	41.92
HETAT	W 6181	OH2 WAT G 16	- '	1.265			1.00	31.25
HETATI	M 6188	OH2 WAT G 16		B.109				46.30
HETATI	M 6189	OH2 WAT G 16	-					37.53
HETATI	M 6190	OH2 WAT G 16	-	6.553				43.91
HETATI	M 5191	OH2 WAT G 16			-21.02	0 100 704		43.13
HETAT!	M 6192	OH2 WAT G 16	•	7.146		8 109.704	1.00	27.99
HETAT	M 6193	OH2 WAT G 16	-	7.445		7 134.746	1.00	36.05
HETATI	M 6194	OH2 WAT G 16	96	5.193				
HETATI	M 6195	OH2 WAT G 17	0 3	6.176				39.63
REUD WI	M 6196		1 7	0.527				44.69
newyw.	M 6197	OH2 WAT G 17	_	7.166	8.73			51.41
ne IAT	M 2100		_	9.700				53.49
HETAT	M 6198		-	5.87			1.00	38.63
HETAT	M 6199			1.87	4 8.43	2 91.682	1.00	40.08
HETAT	M 6200		•	6.77		5 121.530	1.00	32.57
HETAT	M 6201	OH2 WAT G 17	_	3.22			1.00	29.83
HETAT	M 6202	OH2 WAT G 17				5 132.470		47.28
HETAT	M 6203	OH2 WAT G 17	_	9.60		9 98.957	1 00	36.09
	M 6204		9 5	2.81	1 11.79	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.00	,,,,,

HETATM 62		OH2 WAT G 18	-	38.589	18.249 -15.681		1.00 36.19 1.00 34.24
HETATM 6		OH2 WAT G 18		42.283	15.251	91.437	1.00 37.96
HETATM 6		OH2 WAT G 18		57 121	-11.129	126.206	1.00 45.78
HETATM 6		OH2 WAT G 1		50 011	-19.367	92.127	1.00 36.55
HETATM 6		OH2 WAT G 1		56.880		95.969	1.00 39.12
HETATM 6		OH2 WAT G 18 OH2 WAT G 18	0.5	26.356		125.052	1.00 32.68
HETATM 6		OH2 WAT G 1		24.631		122.650	1.00 45.67
HETATM 6		OH2 WAT G 1		23.516		81.599	1.00 42.16
HETATM 6		OH2 WAT G.1	- -	55.017	14.964	62.948	1.00 50.18
HETATM 6		OH2 WAT G 1	90	33.371	13.710	105.640	1.00 37.04
HETATM 6		OH2 WAT G 1	91	44.466	-10.386	91.144	1.00 36.62
HETATM 6		OH2 WAT G 1	92	28.437	22.668	121.285	1.00 38.19
НЕТАТМ 6 НЕТАТМ 6		OH2 WAT G 1	93	29.786	24.957	122.112	1.00 42.05
HETATM 6		OH2 WAT G 1	94	28.852	3.461	96.101	1.00 48.35
HETATM 6	220	OH2 WAT G 1	.95	41.681	11.318	92.011	1.00 32.60
HETATM 6	221	OH2 WAT G 1	.96	26.812	-10.229	111.631	1.00 47.70
HETATM 6	222	OH2 WAT G 1	.97	42.432	-23.250	76.629	1.00 48.86 1.00 43.09
HETATM 6	223	OH2 WAT G 1	.98	25.484	12.756	121.410	1.00 45.09
HETATM 6	224	OH2 WAT G 1	99	43.514	-20.514	111.706	1.00 44.89
HETATM 6	225	OH2 WAT G 2	200	74.273	-13.079	95.699	1.00 40.63
HETATM 6	226	OH2 WAT G 2	201	59.982		103.984 74.705	1.00 35.13
HETATM 6	5227	OH2 WAT G 2	202		-12.771 9.211		1.00 33.53
HETATM 6	5228	OH2 WAT G 2	203	28.708 53.256		122.243	1.00 48.49
HETATM 6	5229	OH2 WAT G 2		50.706	16 208	87.357	1.00 41.26
HETATM 6	5230		205	50.000			1.00 39.15
HETATM 6	5231	OH2 WAT G	206	69 078	-16.236		1.00 29.70
HETATM (5232	OH2 WAT G	207	24.395		111.635	1.00 50.82
HETATM 6	6233	OH2 WAT G	200	53.384	-2.664	114.289	1.00 44.49
HETATM (6234	OH2 WAT G	210	60.120	9.482	94.788	1.00 31.97
HETATM	6235	OH2 WAT G	211	23.405		111.744	1.00 44.97
HETATM HETATM	6230 6337	OH2 WAT G	212	46.214	20.943	76.878	1.00 59.14
HETATM	523 <i>1</i> 5238	OH2 WAT G	213	29.754			1.00 41.78
HETATM	6239	OH2 WAT G	214	46.820		5 55.181	1.00 41.02
HETATM	6240	OH2 WAT G	215	59.143		5 124.775	1.00 38.42 1.00 32.50
HETATM	6241	OH2 WAT G	216	42.674			1.00 56.50
HETATM	6242	OH2 WAT G	217	55.009		98.186	1.00 49.66
HETATM	6243	OH2 WAT G	218	63.363		9 109.653 6 94.671	1.00 50.91
HETATM	6244	OH2 WAT G	219	66.583			1.00 36.99
HETATM	6245	OH2 WAT G	220	44.62			1.00 47.24
HETATM	6246	OH2 WAT G	221	24.47 76.91		·	1.00 50.43
HETATM	6247	OH2 WAT G	222	32.78		1 129.136	
HETATM	6248	OH2 WAT G	223	73 73	1 -16.88		1.00 46.69
HETATM	6249	OH2 WAT G	225	78.56			1.00 43.17
HETATM	6250	OH: WAT G	225	45.68			1.00 35.84
HETATM	625I	OHL WAT G	227	38.26	3 15.23	6 84.711	
HETATM	6252	OH2 WAT G	228	38.93	3 35.22	4 108.488	1.00 52.23
HETATM HETATM	6253	OH2 WAT G	229	33.75	5 14.93	9 70.228	
HETATM	6255	OH2 WAT G	230	51.52	1 34.18	4 100.859	1.00 52.96
HETATM	6256	CH2 WAT G	231	34.14		5 63.039	
HETATM	6257	OH2 WAT G	232	37.27			1.00 39.83 1.00 28.55
HETATM	6258	OH2 WAT G	233	57.30		7 93.216	
HETATM	6259	OH2 WAT G	234	31.71		0 125.707	
HETATM	6260	OH2 WAT G	235	60.62		.9 110.067 57 94.916	
HETATM	6261	OH2 WAT G	236	44.35			
HETATM	6262	OH2 WAT G	237	68.45			
HETATM	6263	OH2 WAT G	238	27.83			
HETATM	6264	OH2 WAT G	239	54.93	:3		
HETATM	6265	OH2 WAT G	240	35.96			3 1.00 38.91
HETATM	5266	CH2 WAT G	241	29.58			1.00 44.85
HETATM	6267	OH2 WAT G	∠4 ∠	40 5	34 -10.1		1 1.00 38.32
HETATM	6268	OH2 WAT G	242	57.2		73 96.69	5 1.00 48.83
HETATM	6269	OH2 WAT G	245	62.3			
HETATM	02/0	CHE WAT G				•	

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··	6271	CHO	WAT G	246		50.248	-5.552	102.815	1.00 43.23
HETATM	6271		WAT G			47.966			1.00 36.79
HETATM						62.507			1.00 35.30
HETATM	6273		WAT G			53.971			1.00 47.49
HETATM	6274		WAT G						1.00 33.71
HETATM			WAT G			38.406			1.00 35.71
HETATM	6276		WAT G			35.304			
HETATM	6277		WAT G			39.218			1.00 36.17
HETATM	6278	OH2	WAT G	253		56.350			1.00 46.38
HETATM	6279	OH2	WAT G	254		69.850			1.00 55.07
HETATM	6280	0.112	WAT G	255		75.703			1.00 30.64
HETATM	6281		WAT G			32.019	-12.973	113.965	1.00 34.48
HETATM	6282	OH2	WAT G	257		54.081	3.421		1.00 39.11
HETATM	6202		WAT G			32.801			1.00 35.72
HETATM	6203	OH2	WAT G			45.040			1.00 36.57
HETATM	C205		WATG			39.815		128.855	1.00 40.10
HETATM	6265	OHZ	WAT G	261		28.763			1:00 44.39
HETATM	6286	OHZ	WAT G	262			-12.050		1.00 50.89
HETATM	6287					64.353		117.495	1.00 62.67
HETATM	6288	OH2	WAT C			75.183		128.124	1.00 50.42
HETATM	6289		WAT C			46.289			1.00 46.86
HETATM	6290		WAT C						1.00 37.90
HETATM	6291	OH2	WAT			68.708		7 130.029	1.00 38.78
HETATM	6292	OH2	WAT G			71.504			1.00 42.92
HETATM	6293	OH2	WAT C			36.309			1.00 51.68
HETATM	6294	CH2	WAT C			65.973			
HETATM	6295	OH2	WAT			71.952			1.00 37.70
HETATM	6296	CH2				44.433			1.00 49.33
HETATM		OH2	WAT	272		26.917			1.00 38.07
HETATM	6298	OH2	WAT (273		63.380		6 126.550	1.00 41.73
HETATM	6299	OH2		274		63.360			1.00 37.54
HETATM	6300	он2				65.94	7 -13.01		1.00 37.42
HETATM		OH2				26.40		1 117.328	1.00 48.37
HETATM	6302	OH2				41.89	3 -10.25	1 98.201	1.00 46.36
HETATM	6303	OH2				30.34		7 117.764	1.00 49.87
HETATM			WAT		_	45.13			1.00 43.93
HETATM		OH2				50.55		5 120.511	1.00 54.02
		OH2				60.42		2 105.130	1.00 31.10
HETATM		OH2				30.34			1.00 45.19
HETATM		OH2				60.35			1.00 33.17
HETATM	6300					64.19			1.00 45.81
HETATM		OH2				45.46	-	3 105.853	1.00 48.98
HETATM	6310	OH2		3 286		47.51			1.00 46.45
HETATM		OH2				72.14			1.00 40.04
HETATM		OH2				54.14			1.00 43.62
HETATM	6313	OH2				48.98			1.00 46.98
HETATM		OH2		3 289		41.17	_	7 115.807	1.00 51.76
HETATM		OH2		G 290		36.49		5 104.170	1.00 44.27
HETATM	6316	CH2	TAW	G 291					1.00 40.96
HETATM	6317	OH2	WAT	G 292		48.58			1.00 40.95
HETATE	6318	OH2	TAW	G 293		55.85			1.00 41.21
HETATM	6319		TAW S			61.72	0 11.07		1.00 42.32
HETATI	1 6320		TAW S					2 114.112	1.00 42.32
HETATI	6321		TAW			53.00		5 129.052	
HETATI	4 6322	OH	TAW	G 297		70.25		8 82.843	1.00 48.09
HETATN	4 6323	OH:	TAK	G 298		77.49		0 130.507	1.00 51.77
HETATY	1 6324		TAW S	G 299		32.23			
HETATN	4 6325	OH	TAW S	G 300		40.66	6 12.87		
HETAT	4 6326	On.	TAW	G 301		50.97	7 12.83	114.597	1.00 48.51
nema un	1 6327		TAW			54.23	6 3.83		
TEI'AII	4 6328	OH		G 303		59.52	7 -1.34	13 107.471	1.00 36.71
TETATI	4 6330		2 WAT			70.33			1.00 47.70
HETAT!	4 6329	On.	Z WAT	G 304		60.62		59 127.780	1.00 41.96
HETAT	4 6330	On.	MAI	G 303		42.15		39 133.156	
HETATI	4 6331	UH.	TAW 2	C 300		58.88			
HETATI	4 6332	OH.	2 WAT	G 301		67.51			
HETATI	M 6333	OH.	Z WAT	9 208		26 06	8 -10.9		
HETATI	4 6334		2 WAT					88 131.914	
	4 6335		2 WAT			45.57			
HETAT	M 6336	сн	2 WAT	G 311		37.58	33 -6.2		1.00 37.00

```
66.759 16.408 94.600 1.00 45.07
                OH2 WAT G 312
                                       24.142 11.212 113.340 1.00 52.23
HETATM 6337
                OH2 MAT G 313
нетатм 6338
                                       69.409 16.702 64.230 1.00 39.88
                OH2 WAT G 314
HETATM 6339
                                       22.064 24.858 115.328
                                                                     1.00 50.23
HETATM 6340 OH2 WAT G 315
HETATM 6341 OH2 WAT G 316
                                                                      1.00 37.32
                                      50.171 9.551 100.345
HETATM 6341
                                                                     1.00 44.78
                                      55.104 31.302 119.497
               OH2 WAT G 317
HETATM 6342
                                      65.333 -10.105 95.866
                                                                     1.00 44.21
               OH2 WAT G 318
нетатм 6343
HETATM 6344 OH2 WAT G 319
HETATM 6345 OH2 WAT G 320
HETATM 6345 OH2 WAT G 320
HETATM 6346 OH2 WAT G 321
HETATM 6346 OH2 WAT G 321
HETATM 6346 OH2 WAT G 321
                                                                     1.00 41.95
                                                                     1.00 44.79
               OH2 WAT G 322 68.048 14.555 126.016 1.00 42.75
OH2 WAT G 323 34.778 -2.509 130.204 1.00 37.06
OH2 WAT G 324 27.972 18.144 103.841 1.00 47.34
OH2 WAT G 325 53.550 23.610 97.592 1.00 30.00
HETATM 6346 OH2. WAT G 321
HETATM 6347 OH2 WAT G 322
HETATM 6348 OH2 WAT G 323
HETATM 6349
HETATM 6350
                                        37.862 35.632 114.870 1.00 48.34
HETATM 6351
                OH2 WAT G 327
                                        50.893 14.612 93.478 1.00 38.77
71.422 -20.913 86.137 1.00 47.69
HETATM 6352
                OH2 WAT G 328
OH2 WAT G 329
HETATM 6353
                                        71.422 -20.913 86.137
50.310 -23.133 74.502
                                                            74.502 1.00 41.94
HETATM 6354
                                        50.310 -23.133
                OH2 WAT G 330
                                                   7.269 60.583 1.00 54.93
HETATM 6355
                                        41.520
                OH2 WAT G 331
 HETATM 6356
                                                 13.737 106.089 1.00 44.65
                                         75.879
                                                   9.027 138.493 1.00 41.08
27.611 79.363 1.00 39.05
0.852 110.192 1.00 41.42
2.479 101.880 1.00 42.50
 HETATM 6357 OH2 WAT G 332
                                                  9.027 138.493
 HETATM 6358 OH2 WAT G 333
                                        51.923
                                        49.511 27.611 79.363
               OH2 WAT G 334
OH2 WAT G 335
 HETATM 6359
                                                  0.852 110.192
                                        69.385
 HETATM 6360
                                       40.952
                OH2 WAT G 336
 HETATM 6361
                                                    7.200 103.784 1.00 54.22
                OH2 WAT G 337
                                        32.998
 HETATM 6362
                                                  15.261 136.205 1.00 52.69
                                         54.366
                OH2 WAT G 338
                                        35.674 13.727 89.792 1.00 35.83
66.606 -21.361 87.138 1.00 46.26
72.053 4.708 131.550 1.00 45.27
 HETATM 6363
                                    OH2 WAT G 339
OH2 WAT G 340
OH2 WAT G 341
OH2 WAT G 342
 HETATM 6364
 HETATM 6365
                                                 -1.358 70.419 1.00 34.92
 HETATM 6366
 HETATM 6367
                                                  -3.981 76.422 1.00 52.99
 HETATM 6368 OH2 WAT G 343
                                                                       1.00 58.16
                                                   2.564 122.150
                 OH2 WAT G 344
 HETATM 6369
                                         30.624 -6:528 125.556 1.00 34.71
27.870 13.838 113.997 1.00 44.91
 HETATM 6370 OH2 WAT G 345
                                        27.870 13.838 113.997
                 OH2 WAT G 346
                                                                       1.00 55.34
 HETATM 6371
                                        31.903 -9.588 116.327
                 OH2 WAT G 347
  HETATM 6372
                                                            63.739 1.00 48.99
                                         71.763 15.094 63.739 1.00 48.99
25.258 -2.536 114.760 1.00 37.19
                 OH2 WAT G 348
  HETATM 6373
                                        43.765 12.162 78.143
32.452 5.338 73.909
                 OH2 WAT G 349
                                                                       1.00 42.32
  HETATM 6374
                                                                       1.00 33.70
  HETATM 6375 OH2 WAT G 350
                OH2 WAT G 351
  HETATM 6376
                                                                        1.00 46.40
                                        52.896 -5.770 101.894
                 OH2 WAT G 352
  HETATM 6377
                                                                        1.00 34.62
                                                   4.242 115.852
  HETATM 6378 OH2 WAT G 353
                                        47.968
                                                   -9.302 90.596
                                                                       1.00 49.80
                                        38.561
                 OH2 WAT G 354
  HETATM 6379
                                                                       1.00 56.40
                                                   17.454 74.354
                                        63.791
41.360
42.467
  HETATM 6380 OH2 WAT G 355
                                                    2.648 133.760 1.00 50.00
  HETATM 6381 OH2 WAT G 356
                                                                       1.00 38.01
1.00 39.26
                                                   -7.937 122.328
  HETATM 6382 OH2 WAT G 357
                                        50.890 -0.362 116.668
  HETATM 6383 OH2 WAT G 358
                                        54.217 -23.881 67.865 1.00 55.18
                  OH2 WAT G 359
  HETATM 6384
                                                   9.539 105.032 1.00 38.83
                                        64.959
                  OH2 WAT G 360
                                        58.113 -19.846 82.288 1.00 38.60
42.245 -1.140 93.572 1.00 31.47
73.552 17.770 125.885 1.00 54.89
  HETATM 6385
                  OH2 WAT G 361
  HETATM 6386
                  OH2 WAT G 362
  HETATM 6387
                 OH2 WAT G 363
OH2 WAT G 364
  HETATM 6388
                                                                         1.00 45.53
                                        68.769 15.898 106.810
  HETATM 6389
                                        37.543 19.031
55.583 6.906
                                                                        1.00 45.15
                                                              78.866
                  OH2 WAT G 365
  HETATM 6390
                                                    6.906 95.087
9.699 78.250
                                                                        1.00 44.99
                  OH2 WAT G 366
  HETATM 6391
                                                                        1.00 36.58
                                        41.284 9.699 78.250
25.203 5.332 126.362
74.742 -5.006 95.104
                  OH2 WAT G 367
   HETATM 6392
                                                                        1.00 46.60
  HETATM 6393 OH2 WAT G 368
                                                                        1.00 47.85
1.00 51.46
                   OH2 WAT G 369
   HETATM 6394
                                         70.349 19.871 69.925
42.936 20.631 94.720
                  OH2 WAT G 370
   HETATM 6395
                                                                         1.00 38.66
                                          34.162 -16.114 114.141 1.00 44.01

33.863 16.838 100.275 1.00 44.66

21.613 12.569 86.140 1.00 43.89
                   OH2 WAT G 371
   HETATM 6396
                   OH2 WAT G 372
  HETATM 5397
                   OH2 WAT G 373
   HETATM 5398
                   OH2 WAT G 374
                                           35.751 -13.302 100.583 1.00 53.53
   HETATM 6399
                   OH2 WAT G 375
                                     35.751 -13.302 100.000
70.095 13.395 117.505 1.00 52.02
41.853 19.108 131.799 1.00 46.47
   HETATM 6400
   HETATM 6401 CH2 WAT G 376
HETATM 6402 OH2 WAT G 377
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HETATM	6403	OH2	WAT G	378	55	.780	-14.986	65.487	1.00	
		0112	WAT G	379		.990	21.205	91.611	1.00	41.02
HETATM		CHZ	WAT G	300		.157		116.992	1.00	44.84
HETATM						.954		128.334	1.00	
HETATM		OH2	WAT G	381				109.194	1.00	
HETATM	6407		WAT G			.221				
HETATM		OH2	WAT G	383				118.421	1.00	
HETATM			WAT G		42	.435	-17.636	81.477	1.00	
		0112	WAT G	385			-25.990		1.00	48.18
HETATM						.495	17 944	128.741	1.00	43.82
HETATM			WAT G				6 301	109.475		35.53
HETATM	6412		WAT G	387		943				43.00
HETATM	6413		WAT G			.277		100.509		
HETATM		OH2	WAT G	389	38	3.862		102.620		31.70
HETATM	6415					652		105.167		49.63
			WAT G	391	68	3.554	-10.518	73.331	1.00	38.16
HETATM	6410			392	7	1 496	-16.160	84.425	1.00	32.16
HETATM	641/		WAT G		4	600	-24.950	75.603	1.00	43.38
HETATM	6418	OH2	WAT G	393						47.44
HETATM	6419		WAT G	394		5.172				47.98
HETATM		CH2	WAT G	395		5.150				
HETATM			WAT G	396	2	5.892	-8.356			34.99
HETATM	6422		WAT G		3	1.737	14.380	90.395	1.00	50.78
HETATM	6422		WAT G		3	5 261	-13.824		1.00	50.86
HETATM	6423					7.312		134.977		43.57
HETATM			WAT G		3	1.314		126.419		57.13
HETATM	6425		WAT G		3.	3.728				
HETATM		OH2	WAT G	401	4	5.269	27.937	130.311		49.55
HETATM		OH2	WAT G	402	4	4.887	-17.414	111.508		54.29
HETATM	6429		WAT G		6	B.928	0.455	136.711		49.90
			WAT G				-21.571		1.00	48.61
HETATM	6429					4.243		108.590		51.05
HETATM			WAT G							43.43
HETATM	6431		WAT G			4.828	3,311			47.83
HETATM	6432		WAT G		5	3.460	27.992	124.076		
HETATM	6433	OH2	WAT G	408	. 7	0.833	-18.390	85.386		49.26
HETATM		OH2	WAT G	409	7	1.497	15.287	113.071		34.52
HETATM			WAT G		3	6.407	-18.480	110.466	1.00	55.43
HETATM	6433		WAT G			6.220			1.00	47.69
HETATM	6436					2.319				42.00
HETATM	6437		NAT C					122.253		44.90
HETATM			WAT G			6.173	_			54.61
HETATM	6439		WAT G		5	8.379	6.335	123.024		
HETATM		OH2	WAT G	415	7	2.162	-16.709	82.719		50.63
HETATM	6441		WAT		6	3.557	26.152	65.944		39.83
HETATM	6442		WAT		3	8.935	23.070	122.742		52.57
			WAT C		Š	5 256	-10.714	124.501	1.00	42.38
HETATM						5.443		7 110.170	1.00	46.47
HETATM			TAW					3 123.288		46.54
HETATM	1 6445		WAT C			3.873	10.570	3 117.527		43.62
HETATM	6446	OH				4.426	12.66.	5 117.527		56.99
HETATM	6447	OH2	YAT C	422		2.374		8 51.502		
HETATN	6448		YAT C		6	0.339	20.21	5 84.713		36.27
HEININ	4 6140		WAT			8.308		4 54.561		38.53
HETATM	1 0447	OH.	2 MAT (425		1.757	7 21.60	6 115.976	1.00	61.09
HETATM			YAT C		,	2 222	1/ 91	6 119.528		51.12
HETATM	1 6451		TAW S					9 112.298		46.10
HETATN	4 6452		2 WAT C			7.47		112.270		35.33
HETATE	4 6453	OH:	TAW S	428		9.909		2 138.388		
HETATN	4 6454	OH:	2 WAT C	429	5	7.829	9 15.33	6 126.262		62.59
HETAT	4 6455		2 WAT (4	8.91	7 –5.85	7 119.191		51.45
REIAIR	4 6455		2 WAT			4.139		2 132.964	1.00	44.91
HETATI	1 6436	On.	2 WAL (- 433 - 433	7	8.88				50.23
HETATI	1 6457		TAW S					4 55.271		38.96
HETAT!	4 6458		2 WAT (2.62				47.30
HETAT	4 6459		2 WAT (0.64		1 101.129	1.00	En 01
нетат	4 6460	OH	2 WAT	3 435	6	4.77	2 5.80		1.00	50.81
HETAT:	4 6461		2 WAT			9.57	1 16.70			34.07
SEIAI	4 5157	2H	2 WAT	2 437		2.79		1 65.371	1.00	41.40
HETATI	1 0402	2H	2 112 m -	0 120		8.31		9 60.087	1.00	46.94
HETAT:	4 6463		2 NAT			6.98	2 5 47	4 120 408	1.00	46.28
HETATI	M 6464		2 WAT				2 2.4/	4 120.408 3 90.050		50.13
HETATI	M 6465		2 WAT			72.13		1 110 202		56.30
HETEM	M 6466	ЭН	2 WAT	G 441	;	29.49		1 118.393		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
· HETAT	M 6467		2 WAT		(59.23		4 113.941		58.17
HEIDI:	M 6468		2 WAT		(51.45	9 11.57	6 71.140	1.00	61.67
HETAT	12 24 0 C			- 473				•		

			:-13 M	_	111	59.592	2.195	58.518	1.00	42.66
HETATM	6469	OH2					6 152	111.310	1.00	45.14
HETATM	6470	OH2.	WAT	G	445	47.407	-			44.76
HETATM		OH2	TAW	G	446	36.254	18.203	99.930		
						49.525	32.050	116.235	1.00	47.72
MTATAH			TAW			21.801	-5.358	81.109	1.00	42.07
HETATM	6473	OH2	WAT	G	448			95.380	1 00	40.76
HETATM		OH2	WAT	G	449	52.131	-14.007			
			WAT			39.712	-19.983	72.499		51.69
\cdot HETATM	6475					67.651	5.620	67.102	1.00	42.38
HETATM	6476		TAW			•		79.207	1 00	63.64
HETATM		OH2	WAT	G	452	77.344	1.313			_
			WAT			55.249	-29.426	86.187		44.98
HETATM						64.429	-11.004	98.104	1.00	49.12
HETATM	6479	0		_			-0.814	129.510	1 00	61.60
HETATM		OH2	WAT	G	455	45.456	•			40.08
		OH2	WAT	G	456	65.066	-14.790			
HETATM			MAT			34.732	5.611	94.924	1.00	58.32

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		Figure 19-1				
	Res	sidue # X	Y	2	B Segment	ID
		45.368			Ī.00 57.10	AAAA
ATCM		46.751	38.761 7		1.00 55.49	AAAA
atom			39.300 7	3.750	1.00 55.57	ÀÀÀÀ
MOTA				4.937	1.00 57.26	AAAA
ATOM				4.110	1.00 56.37	AAAA
ATOM		2 47.062				مممم
ATOM	5 N LYS A			1.938		
	7 CA LYS A	3 46.721		1.002	1.00 51.97	AAAA
ATCH	8 CE LYS A	3 47.815		59.939	1.00 53.86	AAAA
ATOM	• ••	49.223	39.876 7	70.490	1.00 56.47	AAAA
ATOM	•		39.670	59.387	1.00 57.84	aaaa
ATOM		·		59.957	1.00 58.89	بنبنب
ATOM		3 51.654		68.895	1.00 59.33	AAAA
MOTA		52.643			1.00 49.57	AAAA
ATOM	13 C LYS A	3 45.393	• • • • •	70.305		AAAA
ATOM		3 44.894		70.246	1.00 49.33	
		4 44.826		69.777	1.00 46.23	AAAA
ATOM		4 43.561		69.056	1.00 42.51	AAAA
MOTA		4 42.543	41.516	69.630	1.00 42.26	AAAA
MOTA	17 CB VAL A			68.940	1.00 41.51	AAAA
ATCM	18 CG1 VAL A			71.128	1.00 42.00	AAAA
MOTA	19 CG2 VAL A			67.638	1.00 39.94	AAAA
ATOM	20 C VAL A	43.918			1.00 40.39	AAAA
ATOM	21 0 VAL A	4 44.332		67.395	1.00 40.33	AAAA
	22 N LYS A	5 43.766		66.695	1.00 36.94	
MOTA	23 CA LYS A	5 44.142		65.323	1.00 34.10	AAAA
ATOM		5 45.179	39.290	64.846	1.00 35.02	AAAA
ATOM		5 46.424	39.182	65.698	1.00 34.07	AAAA
ATOM	25 CG LYS A			65.652	1.00 33.44	aaaa.
ATOM	26 CD LYS A	5 47.233 5 48.555		66.333	1.00 32.38	شششة
ATOM	27 CE LYS A	48.555		56.222	1.00 31.26	بتبتية
ATOM	28 NZ LYS A	5 49.372			1.00 31.38	AAAA
ATOM	29 C LYS A	5 42.997		64.333		AAAA
ATOM	30 O LYS A	5 42.053		64.466	1.00 31.74	
	31 N LEU A	6 43.090		63.326	1.00 28.50	AAAA
ATOM	- ·	6 42.075	41.167	62.289	1.00 25.90	AAAA
MOTA		6 41.530	42.580	62.067	1.00 26.43	AAAA
MOTA	33 CB LEU A		42.748	61.129	1.00 25.89	AAAA
ATOM	34 CG LEU A		44.224	60.826	1.00 25.50	aaaa
MOTA	35 CD1 LEU A	•	42.032	59.828	1.00 26.64	አ ልልቭ
ATCM	36 CD2 LEU A	5 40.550			1.00 25.74	አጸልል
ATOM	37 C LEU A	5 42.818	40.701	61.049		AAAA
ATOM	38 0 LEV A 39 0 DLE A	6 43.877	41.226	60.717	1.00 24.60	AAAA
	39 :: ILE A	7 42.282	39.704	50.357	1.00 25.90	
ATOM		7 42.939	39.212	59.173	1.00 26.75	ጸጸጸጸ
ATCM		7 42.839	37.712	59.089	1.00 26.58	بمممد
ATCM		7 43.474	37.227	57.783	1.00 27.88	AAAA
ATCM	42 CG2 ILE A	13.528		60.310	1.00 27.02	aaaa
ATCM	43 CG1 ILE A 44 CD1 ILE A		35.640	60.350	1.00 27.46	አጸጹአ
ATOM	44 CD1 ILE A	7 43.507		57.929	1.00 25.70	ሕሕሕሕ
ATOM	45 C ILE A	7 42.339	39.814		1.00 27.68	AAAA
ATOM	46 D ILE A	7 41.162	39.655	57.581	1.00 27.00	AA A
	47 H GLY A	8 43.144	40.509	57.142	1.00 27.94	
ATOM		8 42.598	41.110	55.944	1.00 29.78	AA/A
ATOM		8 43.587		55.027	1.00 30.38	AAAA
ATOM		· · · · · · · · · · · · · · · · · · ·		55.264	1.00 29.39	AAAA
ATOM	50 0 GLY A	-		53.971	1.00 31.84	àààà
ATOM	51 N THR A	-		52.962	1.00 32.41	AAAA
ATCM	52 CA THR A	9 43.832		52.064	1.00 31.12	AAAA
ATCM	53 CB THR A	9 44.606			1.00 30.74	AAAA
ATOM	54 OG1 THR A	9 45.324	42.325	51.053	1.00 30.74	AAAA
	55 CG2 THR A	9 43.654	41.140	51.411	1.00 30.27	
ATOM		9 42.886	43.939	52.091	1.00 32.94	AAAA
ATOM				51.993	1.00 33.62	AAAA
atom	57 C THR A			51.485	1.00 33.20	ሕ ልልኡ
ATOM	58 11 LEU A			50.611	1.00 33.29	AAAA
ATOM	59 CA LEU A	10 42.573				AAAA
ATOM	60 CB LEU A	10 43.117		50.484		AAAA
	61 CG LEU A	10 43.142	48.245	51.566	1.00 32.95	AAAA
ATOM		10 41.743	48.336	52.288		
atom		10 44.116		52.675	1.00 34.71	AAAA
ATOM	63 CD2 LEU A			49.218	1.00 33.18	አጸጸጸ
ATCM	64 C LEU À				1.00 32.52	አአአአ
ATOM	65 0 LEU A			49.022		ሕ አሕሕ
ATOM	66 X ASP A	11 43.230	44.121	-	_,00	

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ATOM	67 CA ASP A 11	43.240			1.00 34.24	AAAA
ATOM	68 CB ASP A 11	44.393		-	1.00 35.81	AAAA
ATOM	69 CG ASP A 11	45.739	43.190		1.00 37.57	AAAA
ATOM	70 OD1 ASP A 11	45.890	44.178		1.00 37.95	AAAA AAAA
ATOM	71 OD2 ASP A 11	46.650	42.750		1.00 40.31	AAAA
ATOM -	72 C ASP A 11	41.929	42.813		1.00 34.03	AAAA
ATOM	73 O ASP A 11	41.629	42.652		1.00 34.80 1.00 32.34	AAAA
ATOM	74 N TYR A 12	41.142	42.417		1.00 32.54	AAAA
ATOM	75 CA TYR A 12	39.871	41.803		1.00 32.33	AAAA
ATOM	76 CB TYR A 12	39.043	41.569		1.00 29.95	AAAA
ATOM	77 CG TYR A 12	39.551	40.438		1.00 28.52	AAAA
MOTA	78 CD1 TYR A 12	39.983 40.413	39.614		1.00 28.03	AAAA
MOTA	79 CE1 TYR A 12	39.568	39.128		1.00 28.47	AAAA
MOTA	80 CD2 TYR A 12 81 CE2 TYR A 12	39.992	38.083		1.00 28.47	AAAA
MOTA	01 010	40.408	38.330	51.775	1.00 28.43	- AAAA
ATOM	1 12	40.786	37.277	52.569	1.00 29.86	AAAA
MOTA	83 OH TYR A 12 84 C TYR A 12	39.146	42.749	47.066	1.00 33.16	AAAA
MOTA	85 O TYR A 12	38.554	42.324	46.082	1.00 33.36	AAAA
ATOM	86 N GLY A 13	39.237	44.041	47.356	1.00 34.76	AAAA
MOTA MOTA	87 CA GLY A 13	38.594	45.065	46.546	1.00 36.60	AAAA
MOTA	88 C GLY A 13	38.814	44.961	45.052	1.00 37.85	AAAA AAAA
ATOM	89 O GLY A 13	38.105	45.591	44.275	1.00 37.40 1.00 39.55	AAAA
MOTA	90 N LYS A 14	39.799	44.171	44.647 43.231	1.00 40.66	AAAA
ATOM	91 CA LYS A 14	40.091	43.981 43.977	43.231	1.00 42.26	AAAA
ATOM	92 CB LYS A 14	41.605	45.309	43.239	1.00 44.54	AAAA
ATOM	93 CG LYS A 14	42.300 41.820	46.445	42.304	1.00 46.32	AAAA
MOTA	94 CD LYS A 14	42.033	46.158	40.810	1.00 46.64	AAAA
ATOM	95 CE LYS A 14 96 NZ LYS A 14	41.133	45.086	40.256	1.00 47.23	AAAA
ATOM	96 NZ LYS A 14 97 C LYS A 14	39.499	42.675	42.707	1.00 40.35	AAAA
ATOM	98 O LYS A 14	39.593	42.377	41.511	1.00 39.97	AAAA
MOTA MOTA	99 N TYR A 15	38.897	41.901	43.605	1.00 39.95	AAAA AAAA
ATOM	100 CA TYR A 15 -	38.300	40.617	43.245	1.00 40.30	AAAA
ATOM	101 CB TYR A 15	38.962	39.490	44.050	1.00 38.46 1.00 37.01	AAAA
ATOM	102 CG TYR A 15	40.472	39.519	44.021 45.137	1.00 37.01	AAAA
ATOM	103 CD1 TYR A 15	41.213	39.136 39.220	45.144	1.00 35.73	AAAA
ATOM	104 CE1 TYR A 15	42.604 41.163	39.220	42.902	1.00 36.84	AAAA
MOTA	105 CD2 TYR A 15	42.556	40.064	42.898	1.00 36.53	AAAA
MOTA	100 020 020	43.271	39.689	44.028	1.00 36.24	AAAA
MOTA	10, 00 000	44.648	39.816	44.042	1.00 36.49	AAAA
ATOM	108 OH TYR A 15 109 C TYR A 15	36.802	40.647	43.556	1.00 41.98	AAAA
ATOM	110 O TYR A 15	36.288	39.786	44.280	1.00 42.59	AAAA
MOTA ATOM	111 N ARG A 16	36.101	41.638	43.014	1.00 42.81	AAAA AAAA
ATOM	112 CA ARG A 16	34.670	41.753	43.257	1.00 43.47 1.00 45.27	AAAA
ATOM	113 CB ARG A 16	34.205	43.197	43.111	1.00 48.06	AAAA
ATOM	114 CG ARG A 16	35.021	44.234	43.833 45.339	1.00 49.63	AAAA
ATOM	115 CD ARG A 16	34.891	44.196 45.322	45.905	1.00 51.65	AAAA
ATOM	116 NE ARG A 16	35.632	46.602		1.00 52.71	AAAA
MOTA	117 CZ ARG A 16	35.382 34.406	46.931		1.00 53.28	AAAA
MOTA	118 NH1 ARG A 16 119 NH2 ARG A 16	36.124	47.560		1.00 53.43	AAAA
MOTA		33.913	40.929		1.00 42.86	AAAA
MOTA		34.455		41.193	1.00 41.83	AAAA
MOTA	121 O ARG A 16 122 N TYR A 17	32.651	40.668		1.00 42.42	AAAA
MOTA	123 CA TYR A 17	31.818	39.942			AAAA
atom atom	124 CB TYR A 17	30.675	39.254			AAAA AAAA
ATOM	125 CG TYR A 17	31.097	38.061			AAAA
ATOM	126 CD1 TYR A 17	32.169	38.148	44.071		AAAA
ATOM	127 CE1 TYR A 17	32.519				AAAA
ATOM	128 CD2 TYR A 17	30:386				AAAA
ATOM	129 CE2 TYR A 17	30.726				AAAA
MOTA	130 CZ TYR A 17	31.792 32.115				AAAA
ATOM	131 OH TYR A 17	31.296				AAAA
MOTA	132 C TYR A 17	22.230		•		•

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	122	^	TYR	λ	17	31.346	42.194	40.905	1.00 44.68	AAAA
MOTA	133 134	о И	PBO		18	30.799	40.574	39.440	1.00 45.95	AAAA
ATOM	135	CD	PRO		18	30.707	39.175	38.994	1.00 46.08	AAAA
MOTA	136	CA	PRO		18	30.268	41.465	38.402	1.00 47.24	AAAA
MOTA	137	CB	PRO		18	29.854	40.482	37.312	1.00 47.69	AAAA
ATOM ATOM	138	CG	PRO		18	30.876	39.338	37.511	1.00 46.79	AAAA
	139	C	PRO		18	29.129	42.390	38.834	1.00 48.98	AAAA
ATOM	140	Ö	PRO		18	28.298	42.020	39.660	1.00 49.11	AAAA
ATOM	141	N	LYS		19	29.114	43.593	38.253	1.00 50.59	AAAA
MOTA	142	CA	LYS		19	28.125	44.654	38.519	1.00 52.10	AAAA
ATOM	143	CB	LYS		19	27.876	45.466	37.246	1.00 54.41	AAAA
711 011	144	CG	LYS		19	29.120	45.911	36.498	1.00 57.78	AAAA
MOTA	145	CD	LYS		19	28.747	46.508	35.142	1.00 59.34	AAAA
MOTA	146	CE	LYS		19	29.978	46.774	34.288	1.00 60.33	AAAA
MOTA	147	NZ	LYS		19	29.616	47.277	32.932	1.00 61.03	AAAA
MOTA	148	C	LYS		19	26.764	44.162	39.012	1.00 51.53	AAAA
MOTA	149	Õ	LYS		19	26.281	44.556	40.071	1.00 51.54	AAAA
ATOM	150	N	ASN		20	26.146	43.314	38.203	1.00 50.13	AAAA AAAA
ATOM ATOM	151	CA	ASN		20	24.831	42.750	38.482	1.00 48.44	AAAA
	152	CB	ASN		20	24.336	42.061	37.209	1.00 49.67	
MOTA MOTA	153	CG	ASN		20	25.389	41.132	36.613	1.00 51.61	AAAA AAAA
	154		ASN		20	25.677	40.064	37.154	1.00 51.70	AAAA
MOTA	155		ASN		20	25.998	41.562	35.509	1.00 53.00	AAAA
MOTA MOTA	156	C	ASN		20	24.789	41.765	39.649	1.00 45.57	AAAA
ATOM	157	ō	ASN		20	23.764	41.127	39.877	1.00 44.67	AAAA
ATOM	158	N	HIS		21	25.883	41.662	40.398	1.00 42.71	AAAA
ATOM	159	CA	HIS		21	25.958	40.709	41.506	1.00 40.69	AAAA
ATOM	160	CB	HIS		21	27.216	39.857	41.353	1.00 40.16 1.00 39.93	AAAA
MOTA	161	CG	HIS	Α	21	27.186	38.587	42.140	1.00 39.33	AAAA
ATOM	162	CD2	HIS	Α	21	27.329	38.353	43.467	1.00 39.47	AAAA
MOTA	163	ND1	HIS	Α	21	26.951	37.359	41.557	1.00 39.36	AAAA
ATOM	164	CE1	HIS	Α.	21	26.948	36.425	42.493	1.00 39.30	AAAA
MOTA	165	NE2	HIS	Α	21	27.174	37.003		1.00 38.93	AAAA
MOTA	166	С	HIS	Α	21	25.974	41.349	42.892 43.116	1.00 38.78	AAAA
ATOM	167	Ο.	HIS	Α	21	26.660	42.338	43.853	1.00 37.11	AAAA
ATOM	168	N	PRO		22	25.229	40.778	43.814	1.00 36.09	AAAA
ATOM	169	CD	PRO) A	22	24.371	39.579	45.199	1.00 35.81	AAAA
ATOM	170	CA	PRC) A	22	25.224	41.361 40.306	46.012	1.00 36.04	AAAA
MOTA	171	CB	PRC		22	24.473	39.810	45.003	1.00 36.19	AAAA
MOTA	172	CG	PRC		22	23.464	41.637	45.751	1.00 34.39	AAAA
MOTA	173	С	PRC		22	26.638	42.653	46.417	1.00 34.09	AAAA
MOTA	174	O	PRC		22	26.867 27.572	40.731	45.451	1.00 31.98	AAAA
ATOM	175	N	LEU		23	28.954	40.827		1.00 29.65	AAAA
MOTA	176	CA	LEU			29.564	39.432		1.00 27.88	AAAA
MOTA	177	СВ	LE			28.896			* ^^ ^7 71	AAAA
MOTA	178	CG	LEU			29.656	37.217	47.149	1.00 26.64	TAAA
MOTA	179		LEU			28.879			1.00 26.75	AAAA '
MOTA	180		LET			29.838			1.00 29.20	AAAA
ATOM	181	C	LE			31.057		45.028	1.00 28.38	AAAA
MOTA	182	0	LE			29.204			1.00 29.27	AAAA
MOTA	183	N	LYS			29.903	_		1.00 29.30	AAAA
MOTA	184	CA		SA		28.881			1.00 29.75	AAAA
MOTA	185	CB		5 A		29.328			1.00 32.55	AAAA
MOTA	186			S A		28.537		41.994	1.00 34.37	AAAA
MOTA	187			SA		27.025		41.835	1.00 34.32	AAAA
MOTA	188			SA		26.221			1.00 34.37	AAAA
ATOM	189	NZ		SA		30.580	_		1.00 28.14	AAAA
ATCM	190			SÀ		31.617		43.840	1.00 27.93	AAAA
MOTA	191			SA		29.990			7 1.06 27.07	AAAA
MOTA	192			EA		30.468			5 1.00 25.82	AAAA
MOTA	193			EA		29.42			1 1.00 25.37	AAAA
ATOM	194			E		28.19			7 1.00 25.71	AAAA
ATOM	195			E		29.14		9 48.15	7 1.00 25.26	AAAA
MOTA	196		1 IL	E /	25	28.31			3 1.00 25.17	AAAA
MOTA	197		1 IL			31.70				. AAAA
MOTA	198	3 C	11	E A	25	J O.		-		•
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		32.037 44	.379 4	7.183 1	1.00 24.48	AAAA
ATOM	199 0 ILE A 25			7.714	1.00 24.98	AAAA
MOTA	200 N PBO A 26			7.638	1.00 24.98	AAAA
MOTA	201 CD PRO A 26				1.00 24.44	AAAA
MOTA	202 CA PRO A 26			8.701	1.00 24.75	AAAA
MOTA	203 CB PRO A 26	5			1.00 25.51	AAAA
MOTA	204 CG PRO A 26	• • • • •		19.862	1.00 23.42	AAAA
ATOM	205 C PRO A 26				1.00 22.12	AAAA
MOTA	206 O PRO A 26				1.00 23.06	AAAA
ATOM	207 N ARG A 27				1.00 23.04	አሕሕሕ
MOTA	208 CA ARG A 27			51.492	1.00 22.20	AAAA
ATOM	209 CB ARG A 27				1.00 19.84	AAAA
MOTA	210 CG ARG A 27	-			1.00 18.64	AAAA
MOTA	211 CD ARG A 27				1.00 16.51	AAAA
ATOM	212 NE ARG A 27				1.00 16.57	AAAA
ATOM	213 CZ ARG A 27	-			1.00 17.50	AAAA
ATOM	214 NH1 ARG A 27			53.038	1.00 16.45	AAAA
ATOM	215 NH2 ARG A 27			52.905	1.00 23.62	AAAA
ATOM	216 C ARG A 27	• • • • • •		53.919	1.00 23.69	AAAA
ATOM	217 O ARG A 27			52.736	1.00 24.25	AAAA
MOTA	218 N VAL A 28	35.5.		53.737	1.00 23.36	AAAA
ATOM	219 CA VAL A 28		2.062	53.671	1.00 22.75	AAAA
ATOM	220 CB VAL A 28	J	2.082	54.475	1.00 22.95	AAAA
ATOM	221 CG1 VAL A 28	305-		54.249	1.00 22.20	AAAA
ATOM	222 CG2 VAL A 28		4.609	53.511	1.00 23.70	AAAA
ATOM	223 C VAL A 28	5	5.156	54.455	1.00 22.62	አልአል
ATOM	224 0 VAL A 28		4.989	52.253	1.00 24.27	AAAA
ATOM	225 N SER A 29	2	6.082	51.910	1.00 26.03	AAAA
ATOM	226 CA SER A 29	20122	6.178	50.381	1.00 25.95	AAAA
ATOM	227 CB SER A 29		6.417	49.716	1.00 27.57	AAAA
ATOM	228 OG SER A 29	•	7.354	52.440	1.00 25.52	AAAA
ATOM	229 C SER A 29		8.311	52.828	1.00 25.49	AAAA
ATOM	230 O SER A 29		7.342	52.448	1.00 26.09	AAAA
ATOM	231 N LEU A 30		18.471	52.926	1.00 26.39	AAAA
ATOM	232 CA LEU A 30		18.365	52.393	1.00 25.89	AAAA
ATOM	233 CB LEU A 30		19.470	52.755	1.00 27.15	AAAA
ATOM	234 CG LEU A 30	34.5.	19.101	53.999	1.00 26.34	AAAA
ATOM	235 CD1 LEU A 30		50.813	52.897	1.00 25.81	AAAA
ATOM	236 CD2 LEU A 30		18.534	54.453	1.00 26.26	AAAA
ATOM	237 C LEU A 30		49.612	55.037	1.00 27.50	aaaa
ATOM	238 O LEU A 30		47.379	55.097	1.00 25.57	AAAA
MOTA	239 N LEU A 31		47.343	56.545	1.00 26.87	AAAA
ATOM	240 CA LEU A 31		45.900	57.029	1.00 27.28	AAAA
ATOM	241 CB LEU A 31		45.563	58.383	1.00 27.87	AAAA
ATOM	242 CG LEU A 31		44.313	58.906	1.00 27.01	AAAA
ATOM	243 CD1 LEU A 31		46.706	59.372	1.00 26.32	AAAA
MOTA	244 CD2 LEU A 31		48.003	57.012	1.00 28.08	AAAA
ATOM	245 C LEU A 31		48.854	57.901	1.00 27.42	AAAA
MOTA	246 O LEU A 31		47.584	56.409	1.00 29.52	AAAA
ATOM	247 N LEU A 32		48.121	56.750	1.00 30.96	AAAA
MOTA	248 CA LEU A 32		47.394	55.950		AAAA
ATOM	249 CB LEU A 32			56.293	1.00 31.63	AAAA
ATOM	250 CG LEU A 32	40.792	45.904 45.246	55.380	1.00 31.31	AAAA
ATOM	251 CD1 LEU A 32	41.810		57.743	1.00 32.23	AAAA
MOTA	252 CD2 LEU A 32	41.232	45.780	56.543	1.00 31.59	AAAA
ATOM	253 C LEU A 32	39.599	49.635	57.416		AAAA
ATCM	254 O LEU A 32	40.081	50.345	55.398		AAAA
ATOM	255 N ARG A 33	39.140	50.129	55.141		AAAA
ATOM	256 CA ARG A 33	39.178	51.564		10	AAAA
ATOM	257 CB ARG A 33	38.643	51.903			AAAA
ATOM	258 CG ARG A 33	39.627	51.609			AAAA
ATCM	259 CD ARG A 33	39.310	52.412			AAAA
MOTA	260 NE ARG A 33	38.255	51.806			AAAA
MOTA	361 CZ ARG A 33	37.662	52.395			AAAA
ATOM	262 NH1 ARG A 33	38.016	53.617			AAAA
ATOM	263 NH2 ARG A 33	36.723.	51.752			AAAA
ATOM	264 C ARG A 33	38.352	52.305	, 50.100	, 1.00 55.15	•
A1011	_ • •					

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	265	_	300		33	38.713	53.390	56.592	1.00 33.61	AAAA
MOTA	265 266	N O	ARG A		34	37.247	51.682	56.562	1.00 33.78	AAAA
ATOM	267	CA	PHE A		34	36.292	52.233	57.517	1.00 33.79	AAAA
MOTA	268	CB	PHE		34	35.065	51.310	57.573	1.00 33.88	AAAA
MOTA	269	CG	PHE		34	33.925	51.840	58.405	1.00 33.16	AAAA
MOTA	270		PHE		34	33.108	52.856	57.925	1.00 32.77	AAAA
MOTA	271		PHE .		34	33.668	51.315	59.672	1.00 33.05	AAAA
MOTA	272		PHE .		34	32.044	53.343	58.695	1.00 32.86	AAAA
ATOM	273		PHE		34	32.607	51.797	60.454	1.00 33.07	AAAA
MOTA	274	CZ	PHE .		34	31.794	52.809	59.966	1.00 32.58	AAAA
ATOM	275	C	PHE .		34 .	36.881	52.414	58.918	1.00 34.01	AAAA
ATOM	276	0	PHE .		34 .	36.903	53.524	59.455	1.00 33.49	AAAA
MOTA	277	N	LYS		35	37.350	51.324	59.516	1.00 34.00	AAAA
MOTA	278	CA	LYS		35	37.928	51.401	60.843	1.00 33.90	AAAA
MOTA	279	CB	LYS		35	38.230	50.010	61.362	1.00 34.07	AAAA
MOTA	280	CG	LYS		35	37.000	49.190	61.662	1.00 33.94	AAAA
ATOM	281	CD	LYS		35	37.414	47.810	62.106	1.00 35.31	AAAA
MOTA MOTA	282	CE	LYS		35	38.062	47.072	60.948	1.00 35.91	AAAA
ATOM	283	NZ	LYS		35	39.058	47.928	60.236	1.00 36.19	AAAA
ATOM	284	C	LYS		35	39.185	52.255	60.881	1.00 34.19	AAAA
ATOM	285	ō	LYS		35	39.554	52.775	61.929	1.00 34.32	AAAA
ATOM	286	N	ASP		36	39.853	52.384	59.745	1.00 33.99	AAAA
MOTA	287	CA	ASP		36	41.034	53.216	59.680	1.00 35.17	AAAA
MOTA	288	CB	ASP		36	41.812	52.943	58.388	1.00 37.40	AAAA
ATOM	289	CG	ASP		36	42.964	53.908	58.186	1.00 38.64	ддад
MOTA	290		ASP		36	43.648	54.218	59.184	1.00 40.02	AAAA
ATOM	291		ASP		36	43.201	54.341	57.035	1.00 38.74	AAAA
MOTA	292	С	ASP	À	36 -	40.568	54.670	59.724	1.00 35.85	AAAA
ATOM	293	0	ASP	A	36	41.231	55.527	60.306	1.00 36.88	AAAA
ATOM-	294	N	ALA	A	37	39.420	54.940	59.111	1.00 34.96	AAAA
ATOM	295	CA	ALA	À	37	38.851	56.280	59.108	1.00 34.47	AAAA
ATOM	296	CB	ALA	А	37	37.751	56.373	58.067	1.00 33.80	АААА АААА
MOTA	297	С	ALA	Α	37	38.291	56.617	60.499	1.00 34.66	AAAA
ATOM	298	0	ALA	Α	37	38.268	57.779	60.899	1.00 34.55	AAAA
ATOM	299	N	MET		3.8	37.830	55.600	61.226	1.00 34.24 1.00 33.07	AAAA
ATOM	300	CA	MET		38	37.287	55.794	62.572	1.00 33.07	AAAA
MOTA	301	CB	MET		38	36.289	54.687	62.917 61.995	1.00 32.32	AAAA
ATOM	302	CG	MET		38	35.084	54.559 55.948	62.101	1.00 32.72	AAAA
MOTA	303	SD	MET		38	33.980	55.878	63.849	1.00 33.77	AAAA
MOTA	304	CE	MET		38	33.550	55.724	63.583	1.00 33.12	AAAA
MOTA	305	C	MET		38	38.430 38.226	55.930	64.777	1.00 32.82	AAAA
ATOM	306	0	MET		38	39.628	55.428	63.090	1.00 32.64	AAAA
MOTA	307	N	ASN		39	40.805	55.266	63.935	1.00 32.38	AAAA
ATOM	308	CA	ASN		39 39	41.200	56.600	64.589	1.00 32.93	AAAA
ATOM	309	CB	ASN		39	41.393	57.736	63.571	1.00 34.40	AAAA
ATOM	310	CG	• • • • • •		39	42.180	57.624	62.630	1.00 34.98	AAAA
ATOM	311		ASN ASN		39	40.677	58.838	63.772	1.00 33.52	AAAA
ATOM	312		ASN		39	40.483	54.212	65.009	1.00 31.69	AAAA
ATOM	313 314	0	ASN		39	40.565	54.490	66.205	1.00 31.12	AAAA
ATOM	315	N	LEU		40	40.095	53.010	64.570		AAAA
ATOM	316	CA	LEU		40	39.750	51.898	65.474	1.00 32.48	AAAA
MOTA	317	CB	LEU		40	38.259	51.559	65.386	1.00 32.55	AAAA
MOTA MOTA	.318	CG	LEU		40	37.231	52.581	65.879	1.00 32.84	AAAA
ATOM	319		LEU		40	35.837	52.089	65.554	1.00 33.79	AAAA
MOTA	320		LEU		40	37.372	52.798	67.376	1.00 32.45	AAAA
ATOM	321	C	LEU		40	40.555	50.628	65.187	1.00 32.92	АААА
ATOM	322	ō	LEU		40	40.196	49.530	65.618	1.00 31.64	AAAA
ATOM	323	N	ILE		41	41.652	50.794	64.464	1.00 34.12	AAAA
ATOM	324	CA	ILE		41	42.508	49.680		1.00 36.07	AAAA
ATOM	325	CB	ILE		41	42.017	48.991	62.811	1.00 35.51	AAAA AAA:
ATOM	326		ILE		41	42.070	49.952	61.636	1.00 33.37	ААА А А <i>А</i> АА
ATOM	327		ILE		41	42.898	47.790			AAAA
MOTA	328		LILE		41	42.854	46.701		1.00 37.19	AAAA
ATOM	329		ILE		41	43.921			1.00 38.85	AAAA
ATOM	330		ILE	Α	41	44.106	51.346	63.413	1.00 38.98	
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									44 200	1 00 4	0 61	AAAA
ATOM	331 N	ı A	SP A	42		44.91			64.329	1.00 4		AAAA
ATOM		A A	SP A	42		46.309			64.181	1.00 4		AAAA
ATOM			SP A	42		46.97	_	0.021	65.553	1.00 4		AAAA
MOTA		G A	ASP A	42		46.31		1.110	66.381	1.00 4		AAAA
ATOM		D1 A	ASP A	42		46.22		2.250	65.883			AAAA
ATOM.	-		ASP A	42		45.89		50.833	67.526	1.00 4		AAAA
ATOM	337		ASP A	42		47.01		18.752	63.392	1.00 4		AAAA
ATOM	338		ASP A	42		46.52		17.620	63.333	1.00 4		
ATOM	339 N		SLU A.	43		48.14		19.090	62.789	1.00 4		AAAA AAAA
ATOM			GLU A	43		48.90		48.141	61.980	1.00 4		
ATOM			GLU A	43		50.17		48.796	61.454	1.00 4		AAAA
ATOM			GLU A	43		49.92		50.057	60.668	1.00 4	9.30	AAAA
ATOM			GLU A	43	-	51.18		50.580	60.028	1.00 4	9.67	AAAA
ATOM			GLU A	43		51.76	_	49.839	59.201	1.00 5	0.60	AAAA
ATOM	_		GLU A	43		51.60		51.714	60.349	1.00 4		AAAA AAAA -
ATOM			GLU A	43		49.29		46.859	62.701	1.00 4		
ATOM	-		GLU A	43		49.21		45.773	62.131	1.00 4		AAAA
ATOM		-	LYS A	44		49.70		46.986	63.954	1.00 4		AAAA AAAA
ATOM			LYS A	44		50.13	_	45.832	64.730	1.00 4		AAAA
MOTA		-	LYS A	44		50.76	_	46.306	66.048	1.00 4		AAAA
ATOM			LYS A	44		51.97		47.215	65.799	1.00		AAAA
ATOM			LYS A	44		52.64	_	47.734	67.071	1.00		AAAA
ATOM			LYS A	44		53.85	_	48.601	66.727	1.00		
ATOM			LYS A	44		54.63	15	49.033	67.936	1.00	53.45	AAAA AAAA
ATOM			LYS A	44		49.02	29	44.828	64.996	1.00		AAAA
ATOM			LYS A	44		49.29		43.735	65.480	1.00		AAAA
MOTA			GLU A	45		47.79		45.190	64.659	1.00		AAAA
ATOM			GLU A	45		46.63	8 8	44.320	64.894	1.00		AAAA
ATOM			GLU A	45		45.49	₹3	45.125	65.517		40.55	AAAA
ATOM			GLU A	45		45.78		45.731	66.882		38.87 37.57	AAAA
ATOM			GLU A	45		44.6			67.360		36.29	AAAA
ATOM			GLU A	45		44.3		47.631	66.693	1.00	38.44	AAAA
ATOM		OE2	GLU A	45		44.0		46.300	68.399		39.15	AAAA
ATOM	364	С	GLU A	45		46.13		43.648	63.630	1.00	39.29	AAAA
ATOM	365	0	GLU A	45		45.3		42.737	63.681		37.62	AAAA
ATOM	366	N	LEU A			46.6		44.115	62.497 61.211	1.00	35.88	AAAA
ATOM	367	CA	LEU A	46		46.2		43.589	60.229	1.00	36.09	AAAA
MOTA	368	CB	LEU A			46.1		44.750	,58.817	1.00	36.50	AAAA
ATOM	369	CG	LEU A	46		45.6		44.550	58.843	1 00	36.66	AAAA
ATOM	370	CD1	LEU A			44.1		44.021	58.113		35.85	AAAA
ATOM	371	CD2	LEU A			45.6		45.893	60.714		34.97	AAAA
ATOM	372	С	LEU A			47.2		42.542	60.714	1 00	35.72	AAAA
MOTA	373	0	LEU A			48.4		42.670	60.118	1 00	33.25	AAAA
ATOM	374	N	ILE A			46.6		41.484	59.560	1 00	30.92	AAAA
ATOM	375 ·	CA	ILE A	47		47.4		40.411			31.22	AAAA
ATOM	376	CB	ILE A	47		47.1		39.024	59.640	1 00	28.55	AAAA
ATOM	377	CG2	ILE A	47		48.0		37.970 39.063	61.694		32.04	AAAA
ATOM	378		ILE A			47.2			62.242	1 00	34.13	AAAA
ATOM	379		ILE A			48.5		39.241 40.381			29.70	AAAA
ATOM	380	Ç	ILE A			47.1					28.42	AAAA
ATOM	381	0	ILE A			45.9		40.373 40.380			28.78	AAAA
ATOM	382	N	LYS A			48.1		40.349			28.42	AAAA
ATOM	383	CA	LYS A			47.9		40.349			27.53	AAAA
ATOM	384	CB	LYS A			49.2					28.97	AAAA
MOTA	385	CG	LYS ?			49.1		40.695 41.104			29.67	AAAA
ATOM	386	CD	LYS ?			50.4				_	29.41	AAAA
ATOM	387	CE	LYS ?			50.4		40.893			29.68	AAAA
ATOM	388	NZ	LYS A			49.4	109	41.645			27.81	AAAA
ATOM	389	С	LYS 2			47.4		38.950			27.96	AAAA
ATOM	390	0	LYS			48.0		37.938			26.82	AAAA
ATOM	391	N	SER			46.		38.892		1 00	26.41	AAAA
ATOM	392	CA	SER			45.		37.611			25.40	AAAA
ATOM	393	CB	SER .	A 49		44.		37.795			25.58	AAAA
ATOM	394	OG	SER			43.		38.349			26.03	AAAA
ATOM	395	Ċ	SER			46.		36.891			26.98	AAAA
ATOM	396	ō	SER			47.	462	37.513	52.3/3	. 1.00	, 20.30	

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						46.910	35.576	53.354	1.00 25.51	AAAA
MOTA	397	N	ARG		50	47.755		52.474	1.00 25.45	AAAA
ATOM	398	CA	ARG		50		33.985	53.252	1.00 25.85	AAAA
MOTA	399	CB	ARG		50	48.807		54.009	1.00 27.16	AAAA
ATOM	400	CG	ARG		50	48.229	32.819	54.720	1.00 27.10	AAAA
ATOM	401	CD	ARG		50	49.280	31.995	55.482	1.00 27.37	AAAA
ATOM	402	NE	ARG		50	48.673	30.896		1.00 27.30	AAAA
MOTA	403	CZ	ARG	Α	50	48.106	29.820	54.946		AAAA
ATOM	404	NH1	ARG	A	50	48.055	29.672	53.630	1.00 28.19	
ATOM	405	NH2	ARG	Α	50	47.592	28.884	55.735	1.00 28.62	AAAA
ATOM	406	С	ARG	A	50	46.806	33.834	51.762	1.00 24.91	AAAA
ATOM	407	0	ARG	Α	50	45.740	33.510	52.283	1.00 23.57	AAAA
ATOM	408	N	PRO	Α	51	47.172	33.392	50.549	1.00 24.28	AAAA
ATOM	409	CD	PRO		51	48.361	33.761	49.770	1.00 24.13	AAAA
ATOM	410	CA	PRO		51	46.355	32.462	49.776	1.00 24.18	AAAA
ATOM	411	СВ	PRO		51	47.012	32.512	48.390	1.00 24.24	AAAA
ATOM	412	CG	PRO		51	47.766	33.862	48.405	1.00 24.11	AAAA
ATOM	413	Ċ	PRO		51	46.473	31.070	50.393	1.00 23.69	AAAA
ATOM	414	ŏ	PRO		51	47.545	30.680	50.839	1.00 24.13	AAAA
	415	N	ALA		52	45.381	30.325	50.422	1.00 23.36	AAAA
MOTA	416	CA	ALA		52	45.419	28.972	50.952	1.00 23.64	AAAA
MOTA	417	CB	ALA		52	44.012	28.405	51.029	1.00 23.86	AAAA
MOTA	418	C	ALA		52	46.260	28.145	49.994	1.00 23.58	AAAA
MOTA	419	0	ALA		52	46.240	28.383	48.806	1.00 24.52	AAAA
ATOM			THR		53	47.009	27.185	50.501	1.00 24.41	AAAA
ATOM	420	N	THR		53	47.815	26.352	49.628	1.00 26.26	AAAA
ATOM	421	CA CB	THR		53	48.933	25.642	50.405	1.00 26.37	AAAA
ATOM	422		THR		53	48.355	24.763	51.375	1.00 26.51	AAAA
ATOM	423		THR		53	49.810	26.648	51.106	1.00 24.48	AAAA
MOTA	424				53	46.889	25.299	49.034	1.00 27.63	AAAA
MOTA	425	C	THR		53	45.870	24.982	49.620	1.00 29.22	AAAA
ATOM	426	0	THR			47.240	24.776	47.867	1.00 29.31	AAAA
MOTA	427	N	LYS		54 54	46.450	23.752	47.189	1.00 30.61	AAAA
MOTA	428	CA	LYS			47.249	23.182	46.015	1.00 31.68	AAAA
MOTA	429	CB	LYS		54	46.585	22:020	45.304	1.00 34.38	AAAA
MOTA	430	CG	LYS		54 .	45.449	22.464	44.417	1.00 36.00	AAAA
MOTA	431	CD	LYS		54	45.943	22.850	43.025	1.00 37.55	AAAA
ATOM	432	CE	LYS		54	46.425	21.664	42.236	1.00 37.57	AAAA
MOTA	433	NZ	LYS		54	46.127	22.640	48.170	1.00 31.26	AAAA
MOTA	434	C	LYS		54	45.025	22.097	48.176	1.00 31.72	AAAA
MOTA	435	0	LYS		54	47.102	22.312	49.006	1.00 31.88	AAAA
MOTA	436	N	GLU		5 5	46.961	21.260	50.011	1.00 32.29	AAAA
MOTA	437	CA	GLU		55	48.266	21.089	50.778	1.00 34.43	AAAA
MOTA	438	CB	GLU		55	48.265	19.901	51.706	1.00 38.39	AAAA
MOTA	439	CG	GLU		55	49.513	19.839	52.584	1.00 41.46	AAAA
MOTA	440	CD	GLU		55	49.745	18.770	53.200	1.00 43.30	· AAAA
MOTA	441		GLU		55	50.245	20.859	52.672	1.00 42.45	AAAA
MOTA	442		GLU		55	45.851	21.555	51.013	1.00 30.43	AAAA
MOTA	443	C	GLU		55	45.048	20.681	51.332	1.00 30.59	AAAA
MOTA	444	0	GLU		55	45.822	22.782	51.517	1.00 28.23	AAAA
MOTA	445	N	GLU		56		23.164	52.488	1.00 27.69	AAAA
MOTA	446	CA	GLU		56	44.812	24.588	52.989	1.00 27.90	AAAA
ATOM	147	CB	GLU		56	45.078	24.721	53.670	1.00 26.64	AAAA
MOTA	148	CG	GLU		56	46.434	26.135	54.098	1.00 26.35	AAAA
ATOM	449	CD	GLU		56	46.769	27.057		1.00 25.12	AAAA
MOTA	450		GLU		56	46.615			1.00 25.70	AAAA
ATOM	451	OE2			56	47.213	26.315 23.043			AAAA
ATOM	452	C	GLU		56	43.408	22.574		1.00 26.25	AAAA
ATOM	453	0	GLU		56	42.495	_		1.00 27.26	AAAA
MOTA	454	N	LEU		57	43.252	23.447		1.00 27.20	AAAA
ATOM	455	CA	LEU		57	41.965	23.389			AAAA
ATOM	456	CB	LEU		57	42.077	24.063		1.00 25.62	AAAA
ATCM	457	CG	LEU		57	42.491	25.545			AAAA
ATOM	458		LEU		57	42.770	26.108			AAAA
ATOM	459	CD2	LEU		57	41.389	26.341			AAAA
ATOM	460	С	LEU		57	41.552	21.946			AAAA
ATOM	461	0	LEU		57	40.363	21.612			AAAA
ATCM	462	N	LEU	JA	58	42.547	21.085	49.641	1.00 27.42	
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ATOM	463 CA LEU A 58	42.293			1.00 26.10	AAAA
ATOM	464 CB LEU A 58	43.486			1.00 25.43	AAAA AAAA
ATOM	465 CG LEU A 58			_ , ,	1.00 26.66	AAAA
ATOM	466 CD1 LEU A 58				1.00 27.12 1.00 26.43	AAAA
ATOM	467 CD2 LEU A 58				1.00 25.79	AAAA
ATOM	468 C LEU A 58				1.00 26.50	AAAA
ATOM	469 O LEU A 58	41.648			1.00 24.91	AAAA
MOTA	470 N LEU A 59	41.977	19.070	53.136	1.00 25.15	AAAA
MOTA	471 CA LEU A 59	41.595 41.958	19.070	54.322	1.00 25.44	AAAA
MOTA	472 CB LEU A 59	43.423	20.280	54.710	1.00 24.67	AAAA
ATOM	4,5	43.502	21.461	55.652	1.00 23.70	AAAA
MOTA	474 CD1 LEU A 59 475 CD2 LEU A 59	44.044	19.044	55.357	1.00 24.08	AAAA
MOTA	476 C LEU A 59	40.074	18.870	53.090	1.00 25.41	AAAA
ATOM ATOM	477 O LEU A 59	39.503	18.266	53.993	1.00 25.88	AAAA AAAA
ATOM	478 N PHE A 60	39.436	19.392	52.031	1.00 25.05 1.00 24.11	AAAA
ATOM	479 CA PHE A 60	37.983	19.276	51.823 52.440	1.00 21.80	AAAA
MOTA	480 CB PHE A 60	37.250	20.476 20.534	52.098	1.00 20.07	AAAA
MOTA	481 CG PHE A 60	35.778	19.501	52.462	1.00 19.27	AAAA
ATOM	482 CD1 PHE A 60	34.917 35.249	21.628	51.399	1.00 19.82	AAAA
ATOM	483 CD2 PHE A 60	33.550	19.557	52.136	1.00 19.26	AAAA
MOTA	401 022 0	33.890	21.688	51.071	1.00 17.45	AAAA
MOTA	485 CE2 PHE A 60 486 CZ PHE A 60	33.042	20.652	51.440	1.00 17.92	AAAA
ATOM	487 C PHE A 60	37.557	19.139	50.345	1.00 24.02	AAAA AAAA
ATOM ATOM	488 O PHE A 60	36.846	18.201	49.974	1.00 23.27 1.00 24.40	AAAA
ATOM	489 N HIS A 61	37.982	20.079	49.511	1.00 24.40	AAAA
ATOM	490 CA HIS A 61	37.626	20.053	48.099 47.494	1.00 24.19	AAAA
ATOM	491 CB HIS A 61	37.768	21.449 22.429	47.979	1.00 24.44	AAAA
ATOM	492 CG HIS A 61	36.744 35.429	22.559	47.683	1.00 24.12	AAAA
MOTA	493 CD2 HIS A 61	37.038	23.444	48.864	1.00 24.36	AAAA
MOTA	474 1155 1155	35.952	24.159	49.089	1.00 23.18	AAAA
ATOM	4,55 022 1124	34.962	23.643	48.385	1.00 23.91	AAAA
MOTA	496 NE2 HIS A 61 497 C HIS A 61	38.416	19.054	47.253	1.00 25.60	AAAA AAAA
ATOM ATOM	498 O HIS A 61	39.596	18.805	47.498	1.00 26.94 1.00 26.68	AAAA
MOTA	499 N THR A 62	37.754	18.496	46.244 45.333	1.00 28.17	AAAA
ATOM	500 CA THR A 62	38.369	17.522 16.695	44.614	1.00 28.15	AAAA
ATOM	501 CB THR A 62	37.290	17.541	43.731	1.00 28.10	AAAA
MOTA	502 OG1 THR A 62	36.544 36.334	16.094	45.629	1.00 28.24	AAAA
MOTA	503 CG2 THR A 62 504 C THR A 62	39.226	18.217	44.278	1.00 29.28	AAAA
MOTA	304 6 21111	38.876	19.286	43.792	1.00 29.52	AAAA
ATOM	505 0 THR A 62 506 N GLU A 63	40.344	17.606	43.912	1.00 31.33	AAAA AAAA
MOTA	507 CA GLU A 63	41.249	18.202	42.928	1.00 32.42	AAAA
MOTA MOTA	508 CB GLU A 63	42.333	17.219	42.536	1 00 34.37 1 00 37.20	AAAA
ATOM	509 CG GLU A 63	43.304	16.869		1 00 37.20	AAAA
ATOM	510 CD GLU A 63	44.427	16.022 16.499		1.00 37.96	AAAA
MOTA	511 OE1 GLU A 63	45.100	14.892		1.00 39.68	AAAA
MOTA	512 OE2 GLU A 63	44.619 40.607			1.00 31.96	AAAA
MOTA	513 C GLU A 63	40.824			1.00 32.10	AAAA
ATOM	54	39.845		40.998	1.00 31.52	AAAA
MOTA	515 N ASP A 64 516 CA ASP A 64	39.204	18.165		1.00 31.36	AAAA AAAA
MOTA	517 CB ASP A 64	38.301				AAAA
MOTA ATOM	518 CG ASP A 64	37.213				AAAA
ATOM	519 OD1 ASP A 64	36.375				AAAA
ATOM	520 OD2 ASP A 64	37.188	17.332			AAAA
MOTA	521 C ASP A 64	38.412				AAAA
ATOM	522 O ASP A 64	38.462 37.695			1,00 27.51	AAAA
MOTA	523 N TYR A 65	36.918			1.00 26.03	AAAA
ATCM	324 011	36.010		42.467	1.00 25.42	AAAA
ATOM	323 (3 120	35.339	21.946	42.866		AAAA AAAA
ATOM	526 CG TYR A 65 527 CD1 TYR A 65	34.525	22.636	5 41.964	1.00 25.04	AAAA AAAA
MOTA	528 CE1 TYR A 65	33.914		3 42.308	1.00 25.01	
MOTA						

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MOTA	529	CD2	TYR A	65	35	.525	22.486	44.136	1.00		AAAA
ATOM	530		TYR A	65		.920	23.677	44.497	1.00		AAAA
MOTA	531	CZ	TYR A	65		.110	24.349	43.576	1.00		AAAA
MOTA	532	OH	TYR A	65		.499	25.543	43.924	1.00	27.20	AAAA AAAA
MOTA	533	С	TYR A	6 5	-	.814	22.022	41.464		25.62	AAAA
MOTA	534	0	TYR A	55	•	.460	23.129	41.096		23.02	AAAA
MOTA	535	N _	ILE A	56		.965	21.812	42.080 42.328		22.33	AAAA
MOTA	536	CA	ILE A	-66		.877	22.902 22.520	42.328		21.45	AAAA
MOTA	537	CB	ILE A	66		.924 .927	23.652	43.617		20.00	AAAA
ATOM	538	CG2	ILE A	56		.220	22.289	44.729		20.16	AAAA
ATOM	539	CG1	ILE A	66 66		.528	23.523	45.228		19.68	, AAAA
MOTA	540	CDI	ILE A	56		.558	23.261	41.023		22.68	AAAA
MOTA	541 542	0	ILE A	66		.636	24.425	40.665		23.19	AAAA
MOTA MOTA	543	N	ASN A	67		.036	22.262	40.295	-	22.96	AAAA
ATOM	544	CA	ASN A	67		.698	22.545	39.029		23.92	AAAA
ATOM	545	СВ	ASN A	67		.292	21.261	38.395		24.24	AAAA AAAA
ATOM	546	CG	ASN A	67		.344	20.588	39.289		23.38 23.47	AAAA
ATOM	547		ASN A	67		.196	21.256	39.859 39.392		23.20	AAAA
MOTA	548		ASN A	67		.290	19.258 23.216	38.063		23.82	AAAA
ATOM	549	C	ASN A	67		.717 .123	23.216	37.204		24.63	AAAA
MOTA	550	0	ASN A	67 63		.427	22.928	38.213		24.08	AAAA
MOTA	551	N	THR A	68 68		.428	23.534	37.343		25.28	AAAA
ATOM	552 553	CA CB	THR A	58		.030	22.904	37.525		24.55	AAAA
ATOM	554	OG1	*	68		.090	21.500	37.258		24.64	AAAA
MOTA MOTA	555	CG2	THR A	58	36	.049	23.534	36.564		23.58	AAAA
ATOM	556	C	THR A	68	38	.322	25.023	37.664		26.31	AAAA AAAA
ATOM	557	0	THR A	68		.114	25.854	36.771		26.69 26.59	AAAA
MOTA	558	N	LEU A	69		.462	25.351	38.945		27.05	AAAA
ATOM	559	CA	LEU A	59		.381	26.729	39.378 40.904		27.15	AAAA
MOTA	560	CB	LEU A	69		3.321	26.807 26.397	41.551	1.00	25.68	AAAA
MOTA	561	CG	LEU A	69		7.088	26.491	43.062		26.30	AAAA
MOTA	562		LEU A	69 69		5.933	27.316	41.044	1.00	26.14	AAAA
MOTA	563 564	CD2	LEU A	69		.570	27.508	38.867	1.00		AAAA
MOTA MOTA	565	o	LEU A	69		.425	28.619	38.356		28.59	AAAA
ATOM	566	N	MET A	70	40	748	26.914	39.009		29.31	AAAA
ATOM	567	CA	MET A	70		1.981	27.536	38.571	1.00	29.89 31.04	AAAA AAAA
ATOM	568	CB	MET A	70		3.160	26.692	39.044		31.79	AAAA
ATOM	569	CG	MET A	70		3.164	26.528 25.684	40.562 41.183	1.00		AAAA
MOTA	570	SD	MET A	70		4.608 5.859	26.820	40.670		30.82	AAAA
MOTA	571	CE	MET A	70 70		2.017	27.723	37.057	1.00		AAAA
MOTA	572	C	MET A	70 70		2.462	28.769	36.559	1.00	30.18	AAAA
MOTA	573 574	O N	GLU A			1.538	26.719	36.328	1.00	30.34	AAAA
MOTA MOTA	575	CA	GLU A			1.519	26.795	34.874	1.00	30.73	AAAA
ATOM	576	CB	GLU A		4	1.140	25.442	34.266	1.00	33.47	AAAA
ATOM	577	CG	GLU A			1.122	25.430	32.731	1.00	37.11	AAAA AAAA
ATOM	578	CD	GLU A	71		2.513	25.676	32.093		40.49	AAAA
ATOM	579	OE1	. GLU A	71		2.570	25.798			40.74	AAAA
ATOM	580		GLU A			3.541	25.738	32.825 34.392	1.00	29.78	AAAA
ATOM	581	С	GLU A			0.537	27.851 28.642		1.00	27.82	AAAA
MOTA	582	0	GLU A			0.852 9.352	27.855		1.00	29.85	AAAA
MOTA	583	N	ALA A		-	8.296			1.00	29.88	AAAA
MOTA	584	CA	ALA A ALA A			7.022			1.00	29.07	AAAA
ATOM	585 586	CB C	ALA A			8.667		34.907	1.00	30.78	AAAA
ATOM	587	0	ALA A			8.359		34.108		0 31.27	AAAA
MOTA ATOM	588	Ŋ	GLU A		3	9.336	30.491			31.07	AAAA
ATOM	589	CA	GLU A	. 73		9.710				0 31.65	аааа Аааа
ATOM	590	СВ	GLU A	73		0.243				0 30.52 0 28.73	AAAA
ATOM	591	CG	GLU A	73		0.643			1.0	0 28.77	AAAA
ATOM	592	CD	GLU A			1.076			. I.U	0 28.94	AAAA
ATOM	593		GLU A	73		0.239				0 28.57	AAAA
ATOM	594	OE:	2 GLU 2	73	4	2.258	33.795	,			•

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			B			*	
		7 77	40.726	32.461	35.378 1	00 33.54 [.]	AAAA
ATOM	-	LU A 73		33.499	34.767 1	1.00 34.93	AAAA
ATOM		LU A 73	41.885	31.832	35.214	L.00 34.35	AAAA
MOTA		RG A 74	42.890	32.428	34.334	1.00 36.04	AAAA
MOTA	•	RG A 74	44.238	31.710		1.00 36.92	AAAA
ATOM		RG A 74	-	30.313		1.00 38.14	AAAA
ATOM-	600 CG A	RG A 74	44.327	29.589		1.00 39.55	AAAA
ATOM	601 CD A	RG A 74	45.508		33.785	1.00 42.02	AAAA
ATOM	602 NE A	RG A 74	45.893	28.404		1.00 42.69	AAAA
ATOM		RG A 74	46.632	28.436		1.00 42.76	AAAA
ATOM	604 NH1 -	RG A 74	47.071	29.593	32.191	1.00 42.92	AAAA
ATOM		ARG A 74	46.933	27.309		1.00 36.56	AAAA
ATOM		RG A. 74	42.476	32.532		1.00 37.73	AAAA
ATOM		ARG A 74	42.842	33.493		1.00 36.60	AAAA
ATOM	• • •	SER A 75	41.711	31.567		1.00 36.82	AAAA
ATOM	•	SER A 75	41.248	31.622		1.00 36.10	- AAAA
ATOM		SER A 75	40.916	30.218		1.00 36.39	AAAA
ATOM	-	SER A 75	39.736	29.723		1.00 36.33	AAAA
	V	SER A 75	39.980	32.476	31.001	1.00 36.25	AAAA
MOTA	V	SER A 75	39.401	32.791	29.963	1.00 36.23	AAAA
ATOM	V	GLN A 76	39.568	32.845	32.208	1.00 37.82	AAAA
ATOM	- ·	GLN A 76	38.368	33.639	32.427	1.00 37.92	AAAA
ATOM		GLN A 76	38.613	35.100	32.049		AAAA
ATOM		GLN A 76	37.630	36.048	32.717	1.00 40.67	AAAA
MOTA		GLN A 76	37.929	36.298	34.199	1.00 41.40	AAAA
ATOM		GLN A 76	38,226	35.379	34.973	1.00 40.79	AAAA
MOTA	620 NE2	GLN A 76	37 <i>.</i> 833	37.556	34.597	1.00 42.32	AAAA
ATOM		GLN A 76	37.223	33.064	31.600	1.00 37.75	AAAA
ATOM	-	GLN A 76	36.521	33.789	30.901	1.00 38.13	
MOTA		SER A 77	37.045	31.749	31.685	1.00 37.52	алал Алал
ATOM	·	SER A 77	35.990	31.061	30.950	1.00 37.75	AAAA
MOTA		SER A 77	36.537	30.440	29.664	1.00 37.90	
MOTA		SER A 77	36.851	31.441	28.724	1.00 40.32	AAAA
MOTA	626 OG	SER A 77	35.338	29.960	31.757	1.00 37.55	AAAA
MOTA	627 C	SER A 77	35.790	29.620	32.846	1.00 36.81	AAAA
MOTA	628 O	VAL A 78	34.264	29.412	31.198	1.00 37.82	AAAA
MOTA	629 N	VAL A 78	33.538	28.309	31.812	1.00 37.99	AAAA
MOTA	630 CA	VAL A 78	32.027	28.514	31.715	1.00 37.19	AAAA
ATOM	631 CB		31.310	27.439	32.49 7	1.00 36.84	AAAA
ATOM		VAL A 78	31.662	29.906	32.201	1.00 37.60	AAAA
MOTA		VAL A 78	33.918	27.089	30.976	1.00 38.28	AAAA
MOTA	634 C	VAL A 78	33.497	26.959	29.819	1.00 39.18	AAAA
ATOM	635 0	PRO A 79	34.734	26.187	31.537	1.00 37.69	AAAA
ATOM	636 N	PRO A 79	35.347	26.167	32.869	1.00 37.65	AAAA
ATOM	637 CD	PRO A 79	35.146		30.797	1.00 37.54	AAAA
ATOM	638 CA		36.127		31.759	1.00 37.45	AAAA
ATOM	639 CB		36.655			1.00 37.65	AAAA
ATOM	640 CG		33.980			1.00 37.20	AAAA
ATOM	641 C		32.958		31.120	1.00 36.43	AAAA
ATOM	642 0		34.154			1.00 37.42	AAAA
ATOM	643 N		33.160			1.00 37.35	AAAA
ATOM	644 CA		33.757		27.725	1.00 37.99	AAAA
ATOM	645 CB		32.928			1.00 38.94	AAAA
atom	646 CG	LYS A 80	31.835			1.00 39.07	AAAA
ATOM	647 CD	LYS A 80 LYS A 80	31.320			1.00 40.43	AAAA
ATOM	.648 CE		30.498			1.00 40.48	AAAA
ATOM	649 NZ	LYS A 80	32.752			1.00 36.85	AAAA
ATOM	650 C	LYS A 80	33.61			1.00 36.56	AAAA
ATOM	651 O	LYS A 80	31.44		_	1.00 35.94	AAAA
ATOM	652 N	GLY A 81	30.90			1.00 35.48	AAAA
ATOM	653 CA	GLY A 81	31.11			1.00 35.23	AAAA
ATOM	-654 C	GLY A 81	30.74			1.00 35.46	AAAA
ATOM	655 O	GLY A 81			•	25 17	AAAA
ATOM	656 N	ALA A 82	31.67				AAAA
ATOM	657 CA	ALA A 82	31.91	_		1.00 35.13	AAAA
ATOM	658 CB	ALA A 82		6 23.74 4 23.37			AAAA
ATOM	659 C	ALA A 82					AAAA
ATOM	660 0	ALA A 82	30.45	1 23.33			-

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ATOM	661	N	ARG A	83		29.858	23.960	33.932	1.00 34.77	AAAA
ATOM	662	CA	ARG A	83		28.637	24.613	34.361	1.00 35.34	AAAA
MOTA	663	СВ	ARG A	83		27.899	25.180	33.150 33.464	1.00 36.26 1.00 37.09	AAAA AAAA
MOTA	664	CG	ARG A	83		27.045 26.209	26.395 26.141	34.686	1.00 37.09	AAAA
ATOM	665	CD	ARG A	83 83		25.475	27.310	35.134	1.00 37.35	AAAA
ATOM	666	NE CZ	ARG A	83		24.711	27.310	36.218	1.00 37.77	AAAA
MOTA	667 668		ARG A	83		24.606	26.204	36.940	1.00 37.29	AAAA
MOTA MOTA	669		ARG A	83		24.040	28.401	36.568	1.00 38.34	AAAA
ATOM	670	C	ARG A	83		27.739	23.603	35.065	1.00 36.30	AAAA
ATOM	671	0	ARG A	83		27.232	23.854	36.154	1.00 36.17	AAAA
ATOM	672	N	GLU A	84		27.565	22.450	34.431	1.00 37.19	AAAA . AAAA
MOTA	673	CA	GLU A	84		26.721	21.382	34.948 33.833	1.00 37.80 1.00 40.55	AAAA
ATOM	674	CB	GLU A	84		26.466 25.643	20.375	34.232	1.00 43.12	AAAA
ATOM	675	CG CD	GLU A	84 84		25.362	18.268	33.046	1.00 44.98	AAAA
ATOM	676 677		GLU A	84		24.573	17.301	33.195	1.00 46.36	AAAA
ATOM ATOM	678	OE2	GLU A	84		25.937	18.532	31.962	1.00 44.94	AAAA
MOTA	679	c	GLU A	84		27.290	20.657	36.158	1.00 37.07	AAAA
ATOM	680	0	GLU A	84		26.642	20.555	37.199	1.00 36.17	AAAA
MOTA	681	N	LYS A	85		28.506	20.152	35.999	1.00 36.23 1.00 35.36	AAAA AAAA
ATOM	682	CA	LYS A	85		29.202	19.412	37.043 36.437	1.00 36.96	AAAA
ATOM	683	CB	LYS A	85		30.449 ° 31.394	18.761 18.158	37.465	1.00 30.90	AAAA
ATOM	584	CG	LYS A	85 85		30.995	16.766	37.919	1.00 40.59	AAAA
ATOM	685 686	CD	LYS A	85		31.508	15.719	36.933	1.00 41.88	AAAA
MOTA MOTA	687	NZ	LYS A	85		32.998	15.817	36.757	1.00 42.00	AAAA
ATOM	588	c	LYS A	85		29.620	20.202	38.289	1.00 33.86	AAAA
ATOM	689	0	LYS A	85		29.576	19.679	39.404	1.00 33.82	AAAA
ATOM	590	N	TYR A	86		30.014	21.458	38.097	1.00 32.06	AAAA AAAA
ATOM	691	CA	TYR A	86		30.514	22.279 22.683	39.194 38.875	1.00 29.44 1.00 29.97	AAAA
MOTA	692	CB	TYR A	86		31.956 32.872	21.496	38.621	1.00 29.99	AAAA
MOTA	693 694	CG	TYR A	86 86		33.281	20:666	39.666	1.00 29.24	AAAA
ATOM ATOM	695	CEI		86		34.126	19.582	39.437	1.00 29.85	AAAA
MOTA	696	CD2		86		.33.329	21.204	37.329	1.00 30.16	AAAA
ATOM	697	CE2		86		34.173	20.118	37.087	1.00 29.61	AAAA
ATOM	698	CZ	TYR A	86	•	34.570	19.313	38.148	1.00 29.79	AAAA AAAA
ATOM	699	OH	TYR A	86		35.414	18.253	37.923 39.572	1.00 29.48 1.00 27.81	AAAA
ATOM	700	C	TYR A	86		29.705 30.052	23.509 24.202	40.524	1.00 27.56	AAAA
ATOM	701	0	TYR A	86 87		28.642	23.784	38.828	1.00 26.60	AAAA
MOTA	702 703	N CA	ASN A ASN A	87		27.777	24.924	39.111	1.00 26.56	AAAA
MOTA MOTA	704	CB	ASN A	87		27.172	24.772	40.508	1.00 26.39	AAAA
MOTA	705	CG	ASN A	87		25.863	25.544	40.684	1.00 26.64	AAAA
ATOM	706	OD1	ASN A	87_		25.335	25.632	41.790	1.00 26.84	AAAA
MOTA	707	ND2	ASN A	87		25.330	26.084	39.597	1.00 26.33 1.00 26.40	AAAA AAAA
ATOM	708	C	ASN A	87		28.587	26.217 27.129	39.024 39.832	1.00 24.80	AAAA
MOTA	709	0	ASN A	87		28.430 29.448	26.273	38.015	1.00 27.57	AAAA
MOTA	710	N	ILE A	88 88		30.330	27.409	37.767	1.00 27.88	AAAA
ATOM	711 712	CA CB	ILE A	88		31.817	26.932	37.648	1.00 27.38	AAAA
ATOM ATOM	713		ILE A	88		32.684	27.994	36.986	1.00 26.34	AAAA
MOTA	714		ILE A	88		32.354	26.543	39.026	1.00 28.35	AAAA
ATOM	715		ILE A	88		32.356	27.671	40.042	1.00 27.78	AAAA
ATOM	716	С	ILE A	88		29.946	-28.110	36.472	1.00 29.17 1.00 29.75	AAAA AAAA
MOTA	717	0	ILE A	88		29.530	27.469	35.515 36.443	1.00 29.75	AAAA
ATOM	718	N	GLY A	89		30.092 29.791	29.429 30.162	35.229	1.00 29.30	AAAA
ATOM	719	CA	GLY Y			28.430	30.162	35.242	1.00 30.44	AAAA
ATOM	720	C	GLY A GLY A			28.177	31.769		1.00 31.14	AAAA
ATOM	721 722	O N	GLY A			27.542	30.268		1.00 30.00	AAAA
ATOM	723	CA	GLY A			26.221	30.841	36.129	1.00 30.52	AAAA
atom atom	724	c	GLY A			26.283	32.262	36.661	1.00 31.09	AAAA
. ATCM	725	ō	GLY A	90		27.356	32.795		1.00 30.34	AAAA AAA
ATOM	726	N	TYR A			25.112	32.873	36.768	1.00 31.09	AAAA

			6-					
> TOY	727 CA TY	(R A 91	. 2	4.977			1.00 31.27	AAAA
ATOM	. —	(R A 91	2	3.515			1.00 31.82	AAAA
ATOM ATOM		YR A 91					1.00 31.81	AAAA AAAA
ATOM		YR A 91		3.536		37.670	1.00 32.44	AAAA
ATOM		YR A 91		3.250		38.475	1.00 31.88 1.00 32.63	AAAA
ATOM		YR A 91		2.505		39.254	1.00 32.60	AAAA
ATOM		YR A 91		2.215	- - ·	40.068 39.668	1.00 32.50	AAAA
MOTA		YR A 91		2.589	38.016 39.094	40.450	1.00 31.94	AAAA
MOTA		YR A 91		2.283 5.384	34.202	38.753	1.00 31.56	AAAA
ATOM	. • -	YR A 91		6.075	35.105	39.233	1.00 31.21	AAAA
MOTA		YR A 91 LU A 92	2	4.925	33.158	39.43B	1.00 31.51	AAAA
ATOM		LU A 92 LU A 92		5.143	32.941	40.865	1.00 32.70	AAAA
ATOM		LUA 92		4.463	31.626	41.268	1.00 33.55	AAAA
MOTA		LU A 92	2	4.174	31.495	42.747	1.00 34.16	AAAA
MOTA MOTA	· •	LUA 92	2	3.311	30.278	43.087	1.00 35.31	AAAA AAAA
ATOM		LU A 92		3.857	29.148	43.152	1.00 34.30 1.00 35.36	AAAA
ATOM		LU A 92		2.076	30.466	43.275	1.00 33.30	AAAA
ATOM		LU A 92		6.619	32.902 33.623	41.248 42.140	1.00 33.02	AAAA
ATOM		LU A 92		7.073	32.049	40.550	1.00 32.84	AAAA
MOTA		SN A 93		27.358 28.785	31.861	40.777	1.00 31.92	AAAA
ATOM		SN A 93		29.015	30.437	41.278	1.00 31.18	AAAA
MOTA		SN A 93 SN A 93		27.948	29.994	42.259	1.00 30.34	AAAA
MOTA		SN A 93		27.723	30.642	43.271	1.00 31.20	AAAA
ATOM	751 CD1 A			27.284	28.892	41.955	1.00 29.02	AAAA
ATOM ATOM		SN A 9:	3	29.442	32.052	39.411	1.00 30.84	AAAA AAAA
MOTA		ASN A 93		29.823	31.082	38.758	1.00 30.82 1.00 29.56	AAAA
ATOM		PRO A 94		29.605	33.309	38.975 39.626	1.00 29.03	AAAA
ATOM	756 CD F	PRO A 9		29.312	34.590 33.564	37.671	1.00 28.89	AAAA
MOTA	, •	PRO A 9	-	30.209 29.890	35.045	37.416	1.00 28.22	AAAA
MOTA	. • •	PRO A 9	_	29.839 28.839	35.377	38.435	1.00 29.50	AAAA
MOTA		PRO A 9	-	31.698	33.351	37.664	1.00 28.25	AAAA
ATOM		PRO A 9	_	32.308	32.996	38.671	1.00 28.21	AAAA
ATOM		VAL A 9	-	32.257	33.593	36.488	1.00 27.36	AAAA
ATOM ATOM		VAL A 9	5	33.676	33.530	36.247	1.00 26.24	AAAA AAAA
ATOM		VAL A 9		33.945	33.289	34.741	1.00 26.10 1.00 25.47	AAAA
MOTA		VAL A 9	-	35.373	33.717	34.357 34.434	1.00 25.47	AAAA
MOTA		VAL A 9		33.736	31.826 34.919	36.647	1.00 26.56	AAAA
MOTA		VAL A 9		34.178 33.560	35.937	36.307	1.00 27.18	AAAA
MOTA	·		5	35.280	34.966	37.382	1.00 25.23	AAAA
MOTA			6 6	35.858	36.237	37.790	1.00 24.51	AAAA
MOTA	and the second s		6	34.935	36.961	38.774	1.00 23.22	AAAA
MOTA			6	34.941	36.297	40.014	1.00 19.76	AAAA
ATOM ATOM			6	37.169	35.920	38.485	1.00 24.84	AAAA AAAA
ATOM			6	37.590	34.764	38.530	1.00 25.97 1.00 24.02	AAAA
ATOM			7	37.824	36.933	39.030 39.744	1.00 24.52	AAAA
ATOM	776 CA		7	39.047	36.664 37.762	39.744	1.00 23.94	AAAA
ATOM			7	40.071	37.762	38.128	1.00 23.72	AAAA
MOTA			7	40.002	38.341	37.039	1.00 23.11	AAAA
ATOM			17 17	40.700		35.758	1.00 23.50	AAAA
MOTA			7	41.717	36.735	37.903	1.00 22.25	AAAA
MOTA	781 CD2 782 CE2		7	42.236	36.526	36.640		AAAA
ATOM	783 CZ	• • • • • • •	97	41.730	37.217	35.572		AAAA
ATOM ATOM	784 OH		7	42.232				AAAA AAAA
ATOM	785 C		97	38.800				AAAA
ATOM	786 0	TYR A	7	39.739	36.266			AAAA
ATOM	787 N	ALA A	98	37.522				AAAA
ATOM	788 CA	•	8	37.083				AAAA
ATOM	789 CB		98	35.800 36.824			1.00 23.95	AAAA
atcm	790 C	•	98 98	36.929		44.171	1.00 24.21	AAAA
ATOM	791 C 792 N	•	98 99	36.502			1.00 23.10	AAAA
ATOM	792 N					•		•

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ATOM	793 CA MET A 99	36.208	32.584		1.00 22.61	AAAA
MOTA	794 CB MET A 99	35.855	32.089		1.00 23.25	ሉፋፋሉ ሉፋፋፋ
ATOM	795 CG MET A 99	37.009	32.063		1.00 23.22	AAAA
ATOM	796 SD MET A 99	36.360	31.808		1.00 25.21 1.00 22.04	٨٨٨٨
ATOM	797 CE MET A 99	35.328	30.374		1.00 22.04	AAAA
ATOM	798 C MET A 99	37.319	31.720	42.581 43.199	1.00 21.30	AAAA
MOTA	799 O MET A 99	37.052	30.695	42.380	1.00 21.23	AAAA
MOTA	800 N PHE A 100	38.567	32.111 31.322	42.936	1.00 21.11	AAAA
ATOM	801 CA PHE A 100	39.650 40.388	30.552	41.841	1.00 20.25	AAAA
ATOM	802 CE PHE A 100	41.451	29.648	42.375	1.00 20.14	AAAA
MOTA	803 CG PHE A 100 . 804 CD1 PHE A 100	41.114	28.462	43.010	1.00 20.49	AAAA .
ATOM	804 CD1 PHE A 100 805 CD2 PHE A 100	42.785	30.050	42.373	1.00 19.82	AAAA
ATOM	806 CE1 PHE A 100	42.090	27.695	43.646	1.00 19.54	AAAA
ATOM ATOM	807 CE2 PHE A 100	43.755	29.300	43.001	1.00 19.22	AAAA AAAA
ATOM	808 CZ PHE A 100	43.410	28.122	43.641	1.00 19.47 1.00 21.37	AAAA
ATOM	809 C PHE A 100	40.649	32.161	43.743 44.887	1.00 21.37	AAAA
ATOM	810 O PHE A 100	40.959	31.822 33.252	43.161	1.00 20.94	AAAA-
MOTA	811 N THR A 101	41.142	34.097	43.847	1.00 21.95	AAAA
MOTA	812 CA THR A 101	42.119 42.691	35.181	42.905	1.00 22.21	AAAA
MOTA	813 CB THR A 101 814 OG1 THR A 101	43.511	34.552	41.917	1.00 22.90	AAAA
MOTA		43.535	36.186	43.667	1.00 21.38	AAAA
ATOM	815 CG2 THR A 101 816 C THR A 101	41.584	34.755	45.117	1.00 22.60	AAAA
MOTA MOTA	817 O THR A 101	42.248	34.723	46.147	1.00 23.38	AAAA
ATOM	818 N GLY A 102	40.394	35.343	45.049	1.00 22.13 1.00 22.03	аааа Аааа
ATOM	819 CA GLY A 102	39.826	35.972	46.227	1.00 22.03	AAAA
ATOM	820 C GLY A 102	39.340	34.928	47.221 48.439	1.00 20.02	AAAA
ATOM	821 O GLY A 102	39.433	35.104 33.833	46.677	1.00 21.86	AAAA
MOTA	822 N SER A 103	38.816 38.311	32.719	47.466	1.00 21.68	AAAA
MOTA	823 CA SER A 103 824 CB SER A 103	37.699	31.668	46.557	1.00 21.56	AAAA
MOTA		36.604	32.216	45.857	1.00 23.67	AAAA
MOTA	825 OG SER A 103 826 C SER A 103	39.450	32.098	48.229	1.00 22.67	AAAA
MOTA MOTA	827 O SER A 103	39.314	31.806	49.412	1.00 22.44	AAAA AAAA
ATOM	828 N SER A 104	40.578	31.898	47.545	1.00 23.37 1.00 23.50	AAAA
MOTA	829 CA SER A 104	41.746	31.305	48.183 47.172	1.00 23.30	AAAA
ATOM	830 CB SER A 104	42.862	31.070 30.169	46.175	1.00 28.38	AAAA
ATOM	831 OG SER A 104	42.441 42.254	32.230	49.256	1.00 22.79	AAAA
MOTA	832 C SER A 104 833 O SER A 104	42.707	31.794	50.307	1.00 22.66	AAAA
ATOM		42.160	33.518	48.970	1.00 22.08	AAAA
MOTA	834 N LEU A 105 835 CA LEU A 105	42.626	34.541	49.870	1.00 21.70	AAAA
MOTA ATOM	836 CB LEU A 105	42.524	35.882	49.159	1.00 21.89	АААА АААА
ATOM	837 CG LEU A 105	43.332	37.038	49.718	1.00 23.64 1.00 22.01	AAAA
ATOM	838 CD1 LEU A 105	44.830	36.692	49.639	1.00 22.01	AAAA
MOTA	839 CD2 LEU A 105	43.004		48.919 51.131	1.00 22.29	AAAA
ATOM	840 C LEU A 105	41.767			1.00 21.95	AAAA
ATOM	841 0 LEU A 105	42.277 40.458			1.00 22.23	AAAA
ATOM	842 N ALA A 106 843 CA ALA A 106	39.515			1.00 22.32	AAAA
ATOM	843 CA ALA A 106 844 CB ALA A 106	38.068			1.00 22.05	AAAA
MOTA	845 C ALA A 106	39.704			1.00 21.99	AAAA
MOTA MOTA	846 O ALA A 106	39.578	33.145	54.061	1.00 23.18	AAAA AAAA
ATOM	847 N THR A 107	40.011			1.00 21.24 1.00 20.60	AAAA
ATOM	848 CA THR A 107	40.209			1.00 19.82	AAAA
ATOM	849 CB THR A 107	40.170			1.00 18.56	AAAA
ATOM	850 CG1 THR A 107	38.903			1.00 18.58	AAAA
ATOM	851 CG2 THR A 107	40.360 41.516	- -		1.00 21.41	· AAAA
ATOM	852 C THR A 107	41.510	_		1.00 23.16	AAAA
ATOM	853 O THR A 107 854 N GLY A 108	42.601			1.00 20.14	AAAA
ATOM		43.878		53,684	1.00 18.20	AAAA
ATOM	855 CA GLY A 108 856 C GLY A 108	43.739	31.933	3 54.972	1.00 18.43	аала Аала
atom atom	857 O GLY A 108	44.335	31.600			AAAA
ATOM	858 N SER A 109	42.909	32.969	54.929	1.00 18.56	·
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		1.6	
	859 CA SER A 109	42.683 33.805 56.098 1.00 19	.67 AAAA
ATOM	860 CB SER A 109	41.899 35.058 55.707 1.00 20	.27 AAAA .80 AAAA
ATOM ATOM	861 OG SER A 109	42.618 35.803 54.746 1.00 21 42.618 35.803 57.219 1.00 19	
MOTA	862 C SER A 109	41.933 33.000 55 300 1 00 10	
ATOM	863 O SER A 109	42.070	
ATOM -	864 N THR A 110	41.100 32.001 1 00 30	
MOTA	865 CA THR A 110	40.495 51.200	
MOTA	866 CB THR A 110	39.365 30.438 57.304 1.00 20 38.236 31.284 57.050 1.00 20	.80 AAAA
ATOM	867 OG1 THR A 110	38.250 32 313 58.262 1.00 20	.53 AAAA
MOTA	868 CG2 THR A 110 869 C THR A 110	41 504 30.420 58.601 1.00 20	.36 AAAA
ATOM		41 455 30.268 59.822 1.00 20	
MOTA	870 O THR A 110 871 N VAL A 111	42.431 29.855 57.832 1.00 20).85 AAAA 03 AAAA
MOTA MOTA	872 CA VAL A 111	43.480 29.053 58.423 1.00 23	
MOTA	873 CB VAL A 111	44.316 20.323	
MOTA	874 CG1 VAL A 111	43.337 27.322 27.00 3.00 3.0	
ATOM	875 CG2 VAL A 111	43.460 27.281 56.648 1.00 1 44.374 30.005 59.232 1.00 2	
ATOM	876 C VAL A 111	44.374 30.663 60.331 1.00 2	2.73 AAAA
MOTA	877 O VAL A 111	44 612 31.204 58.712 1.00 2	
MOTA	878 N GLN A 112 879 CA GLN A 112	45 449 32.133 59.452 1.00 2	
MOTA		45.630 33.450 58.690 1.00 2	
MOTA	880 CB GLN A 112 881 CG GLN A 112	46.288 33.283 57.335 1.00 2	
ATOM ATOM	882 CD GLN A 112	46.414 34.578 56.569 1.00 2	J 1 = 4
MOTA	883 OE1 GLN A 112	47.303 33.310 55 752 3 00 3	
ATOM	884 NE2 GLN A 112	40.410 04.010	
ATCM	885 C GLN A 112	44.766 32.383 60.774 1.00 2 45.389 32.316 61.835 1.00 2	2.47 AAAA
MOTA	886 O GLN A 112	43 468 32 651 60,700 1.00 2	1.34 AAAA
MOTA	887 N ALA A 113 888 CA ALA A 113	42 692 32 934 61.884 1.00 2	0.84 AAAA
MOTA	888 CA ALA A 113 889 CB ALA A 113	41 244 33.172 61.504 1.00	.8.52 AAAA .1.75 AAAA
ATOM	890 C ALA A 113	42.795 31.782 62.865 1.00 2 42.795 31.782 64.865 1.00 2	
ATOM ATOM	891 O ALA A 113	42.880 31.380 1 00 3	
MOTA	892 N ILE A 114	42.797	
ATOM	893 CA ILE A 114	42.891 29.393 63.160 1.00 6 42.557 28.146 62.352 1.00 6	
MOTA	894 CB ILE A 114	42 939 26 912 63.106 1.00	23.80 AAAA
MOTA	895 CG2 ILE A 114 896 CG1 ILE A 114	41 058 28.130 62.047 1.00	23.48 AAAA
MOTA		40.610 26.951 61.204 1.00	22.08 AAAA 24.33 AAAA
MOTA	897 CD1 ILE A 114 898 C ILE A 114	44.268 29.270 63.792 1.00	
MOTA	899 O ILE A 114	44.373 29.013 64.990 1.00 45.319 29.490 63.002 1.00	
atcm atcm	900 N GLU A 115	43.313	
ATOM	901 CA GLU A 115	46.699 29.395 63.503 1.00 47.708 29.753 62.406 1.00	24.75 AAAA
ATOM	902 CB GLU A 115	47 444 29 033 61.103 1.00	25.80 AAAA
ATOM	903 CG GLU A 115 904 CD GLU A 115	40 471 29 323 60.030 1.00	26.07 AAAA
ATOM		48.911 30.484 59.940 1.00	27.15 AAAA
ATOM	905 OE1 GLU A 115 906 OE2 GLU A 115	48.819 28.402 59.260 1.00	25.45 AAAA 27.89 AAAA
MOTA	907 C GLU A 115	40.07	27.89 AAAA 28.04 AAAA
ATOM ATOM	908 O GLU A 115	47.480 23.5.5	29.15 AAAA
ATOM	909 N GLU A 116	40.557 55.55 45.55	29.42 AAAA
MOTA	910 CA GLU A 116	46.408 32.579 65.563 1.00 45.751 33.871 65.082 1.00	28.26 AAAA
ATOM	911 CB GLU A 116	45 482 34 529 63.945 1.00	28.93 AAAA
ATOM	912 CG GLU A 116 913 CD GLU A 116	47 902 34 937 64.318 1.00	28.32 AAAA
MOTA		48.081 35.878 65.123 1.00	27.68 AAAA
ATCM	914 OE1 GLU A 116 915 OE2 GLU A 116	48.838 34.297 63.810 1.00	27.38 AAAA 29.77 AAAA
ATOM	916 C GLU A 116	43.73, 32.22	29.77 AAAA 30.29 AAAA
ATOM ATOM	917 O GLU A 116	40.550 52.125 46.727 1.00	29.64 AAAA
ATCM	918 N PHE A 117	44.452 51.000	29.33 AAAA
ATOM	919 CA PHE A 117	43.741 31.204 67.887 1.00 42.425 30.552 67.480 1.00	28.89 AAAA
ATOM	920 CB PHE A 117	41 604 30.087 68.651 1.00	28.93 AAAA
ATOM	921 CG PHE A 117	41 010 31 010 69 510 1.00	28.42 AAAA
ATOM	922 CD1 PHE A 117 923 CD2 PHE A 117	41.441 28.723 68.910 1.00	29.06 AAAA
ATCM	117	70 610 1 00	28.68 AAAA
ATOM	924 CEL PHE A II		

> mow	925	CE2	PHE A	117		40.695	28.284	70.009	1.00 29.16	AAAA
MOTA MOTA	926		PHE A			40.103	29.227	70.862	1.00 29.03	AAAA
ATOM	927	c	PHE A	_		44.545	30.195	68.671	1.00 29.22	AAAA
ATOM	928	ō	PHE A			44.677	30.315	69.884	1.00 30.29	AAAA
ATOM	929	N	LEU A	118		45.066	29.195	67.965	1.00 29.24	AAAA
ATOM	930	CA	LEU A	118		45.864	28.145	68.576	1.00 29.50	AAAA
MOTA	931	CB	LEU A	118		46.182	27.047	67.550	1.00 28.57	AAAA AAAA
ATOM	932	CG	LEU A	118		44.962	26.296	66.989	1.00 28.16	AAAA
MOTA	933		LEU A			45.421	25.090	66.191 68.128	1.00 25.58 1.00 27.64	AAAA
ATOM	934		LEU A			44.053	25.846	69.227	1.00 27.04	AAAA
ATOM	935	С	LEU A			47.150	28.649 27.954	70.056	1.00 29.94	AAAA
MOTA	936	0	LEU A			47.727 47.602	29.845	68.847	1.00 31.36	AAAA
MOTA	937	N	LYS A			48.798	30.451	69.448	1.00 32.52	AAAA
MOTA	938 939	CA CB	LYS A			49.396	31.539	68.559	1.00 32.38	AAAA
MOTA	940	CG	LYS A			49.882	31.108	67.199	1.00 33.03	AAAA
ATOM ATOM	941	CD	LYS A			50.371	32.321	66.411	1.00 32.74	AAAA
ATOM	942	CE	LYS A			50.681	31.939	64.972	1.00 33.94	AAAA
ATOM	943	NZ	LYS A			51.125	33.099	64.152	1.00 34.93	AAAA
ATOM	944	C	LYS A	. 119		48.385	31.143	70.744	1.00 33.74	AAAA
ATOM	945	0	LYS A	119		49.218	31.748	71.413	1.00 34.85	AAAA
ATOM	946	N	GLY A	120		47.096	31.079	71.073	1.00 33.68	AAAA AAAA
ATOM	947	CA	GLY A			46.600	31.736	72.263	1.00 33.69 1.00 34.11	AAAA
ATOM	948	С	GLY A			45.987	33.110	71.988 72.932	1.00 34.11	AAAA
ATOM	949	0	GLY A			45.588	33.802	70.717	1.00 33.58	AAAA
MOTA	950	N	ASN A			45.904 45.326	33.513 34.820	70.368	1.00 33.35	AAAA
MOTA	951	CA	ASN A			46.194	35.537	69.341	1.00 33.18	AAAA
ATOM	952	CB	ASN A		•	47.570	35.828	69.859	1.00 34.31	AAAA
MOTA	953 954	CG	ASN A			48.333	34.921	70.154	1.00 35.67	AAAA
MOTA MOTA	955		ASN 2			47.897	37.096	69.975	1.00 34.18	AAAA
ATOM	956	C	ASN A			43.888	34.805	69.839	1.00 32.85	AAAA
ATOM	957	ō	ASN A			43.304	33.751	69.599	1.00 32.78	AAAA
MOTA	958	N	VAL 2	A 122		43.338	36.003	69.655	1.00 32.47	AAAA
ATOM	959	CA	VAL A			41.980	36.200	69.148	1.00 30.89	AAAA AAAA
ATOM	960	CB		A 122		41.182	37.145	70.070	1.00 31.05 1.00 30.95	AAAA
MOTA	961		VAL A			39.831	37.423	69.489 71.440	1.00 30.93	AAAA
MOTA	962	CG2	VAL A			41.038	36.516 36.805	67.750	1.00 30.19	AAAA
MOTA	963	C		A 122		42.056 42.694	37.840	67.535	1.00 31.28	AAAA
ATOM .	964	0		A 122 A 123		41.405	36.147	66.800	1.00 28.62	AAAA
ATOM	965 966	N CA		A 123		41.415	36.589	65.421	1.00 26.49	AAAA
ATOM ATOM	967	CB		A 123		42.323	35.708	64.599	1.00 26.51	AAAA
ATOM	968	c		A 123		40.038	36.570	64.836	1.00 25.59	AAAA
ATOM	969	ō		A 123		39.173	35.814	65.252	1.00 26.27	AAAA
ATOM	970	N		A 124		39.848	37.421	62.847	1.00 25.44	AAAA AAAA
ATOM	971	CA	PHE 2	A 124		38.590	37.534	67.156	1.00 23.87 1.00 23.58	AAAA
ATOM	972	CB		A 124		37.832	38.779	63.646 62.841	1.00 23.71	AAAA
ATOM	973	CG		A 124		36.591	39.119 38.140	62.495	1.00 23.44	AAAA
ATOM	974	CD1	PHE .	A 124		35.668	40.449	62.498	1.00 23.75	AAAA
ATOM	975		PHE .			36.311 34.479	38.483	61.823	1.00 23.31	AAAA
MOTA	976		PHE .			35.131	40.796	61.833	1.00 21.71	AAAA
MOTA	977	CEZ		A 124		34.217	39.815	61.497	1.00 22.35	AAAA
ATOM	. 978 979	C		A 124		38.951	37.673	61.700	1.00 23.26	AAAA
MOTA	980	Ö		A 124		39.720	38.555	61.323	1.00 22.29	AAAA
atom atom	981	И		A 125		38.427	36.759	60.897	1.00 23.24	AAAA
ATOM	382	CA		A 125		38.622		59:457	1.00 21.08	AAAA
ATOM	983	CB		A 125		39.181	35.470	58.951	1.00 19.90	AAAA
ATOM	984	CG		A 125		39.098	35.360		1.00 20.64	AAAA
ATOM	985	OD1	ASN	A 125		39.389	36.317	56.748	1.00 21.63	AAAA AAAA
ATOM	986		ASN	A 125		38.721	34.190		1.00 19.93 1.00 20.19	AAAA
ATOM	987	С		A 125		37.269	37.059			AAAA
ATOM	988	0		A 125		36.469			1.00 19.21	AAAA
ATOM	989			A 126		36.991				AAAA
ATOM	390	CD	PRO	A 126		37.893	33.400	050		•

:	001	- n 1	PRO A	126	35	.766	38.849	57.932	1.00		AAAA
ATOM			PRO A			.005	40.359	57.941	1.00		AAAA
ATOM ATOM	-		PRO A			.511	40.465	57.799	1.00		AAAA AAAA
ATOM			PRO A			.456	38.313	56.526	1.00	19.41	AAAA
ATOM)	PRO A	126		1.303	38.349	56.080		18.17	AAAA
MOTA			ALA A			5.477	37.814	55.835 54.481		17.66	AAAA
ATOM		CA .	ALA A	127		5.283	37.314	53.658	1 00	17.08	AAAA
MOTA	998	CB .	ALA A	127		7.547	37.520 35.857	54.443		17.46	AAAA
MOTA		C	ALA A	127		5.875 5.438	35.359	53.409		18.92	AAAA
MOTA		0	ALA A	127		5.019	35.180	55.570	1.00	15.94	AAAA
MOTA		N	GLY A	128		5.685	33.780	55.642		15.45	AAAA
MOTA			GLY A			4.226	33.593	55.955	1.00	16.08	AAAA
MOTA			GLY A			3.485	34.557	55.997		15.43	AAAA
MOTA MOTA		N	GLY A	129	3	3.821	32.353	56.198		16.77	AAAA AAAA
ATOM		CA	GLY A	129	_	2.426	32.082	56.462		17.82 18.64	AAAA
ATOM		С	GLY A	129		1.669	31.822	55.169 55.108		18.48	AAAA
MOTA	1008	0	GLY A	129		0.469	32.051 31.368	54.137		20.45	AAAA
MOTA	1009	N	MET A	130		2.380 1.790	31.029	52.826		21.60	AAAA
ATOM	1010	CA	MET A	130		2.866	31.117	51.744	1.00	22.02	AAAA
MOTA	1011	CB	MET A	130		3.551	32.472	51.698		21.75	AAAA
MOTA	1012	CG	MET A			4.971	32.567	50.599		24.75	AAAA
MOTA	1013 1014	SD CE	MET A	130		4.268	32.137	49.048		24.40	AAAA
ATOM ATOM	1015	C.	MET A	130	3	1.328	29.587	53.002	1.00	22.08 22.98	AAAA . AAAA
ATOM	1016	ō	MET A			1.970	28.641	52.546	1.00	22.25	AAAA
ATOM	1017	N	HIS A	131		0.184	29.452	53.659 54.062	1.00	.20.49	AAAA
ATCM	1018	CA	HIS A	131		9.618	28.171 28.421	55.342	1.00	20.00	AAAA
MOTA	1019	CB	HIS A	131		8.832	29.360	55.161		17.93	AAAA
MOTA	1020	CG	HIS A			7.091	29.846	54.043	1.00	17.88	AAAA
ATOM	1021	CD2	HIS A	131		6.952	29.854	56.219		19.33	AAAA
MOTA	1022 1023	MDI	HIS A	131		5.968	30.607	55.758		16.99	AAAA AAAA
MOTA MOTA	1023	NE2	HIS A	131		26.031	30.617	54.441	1.00	17.43	AAAA
ATOM	1025	С	HIS A	131		28.763	27.332	53.141	1.00	19.57	AAAA
ATOM	1026	0	HIS A	131		28.330	26.262	53.541 51.923	1.00	20.11	AAAA
ATOM	1027	N	HIS A			28.518	27.796 27.058		1.00	17.76	AAAA
MOTA	1028	CA	HIS A	132		27.673 26.879	28.044		1.00	16.76	AAAA
ATOM	1029	CB	HIS A	132		25.82 4	28.815		1.00	15.35	AAAA
ATOM	1030	CG	HIS A			25.567		50.920	1.00	14.15	AAAA
ATOM	1031 1032	NID1	HIS A	132		24.804		51.557		16.15	AAAA AAAA
MOTA MOTA	1032	CEI	HIS A	132		23.966	29.119			14.13	AAAA
MOTA	1034	NE2	HIS A	132		24.405	30.307	51.632	1.00	17.99	AAAA
MOTA	1035	С	HIS A	A 132		28.355				18.54	AAAA
MOTA	1.36	0	HIS A	A 132		27.742 29.604				0 17.82	AAAA
MOTA	1.37	N	ALA A	A 133		29.804 30.300			1.0	0 18.38	AAAA
MOTA	1.38	CA	ALA A	A 133 A 133		31.684			1.0	0 17.53	AAAA
MOTA	1039	CB C	ALA A	A 133		30.366		49.130		0 20.92	AAAA
MOTA	1040 1041	0	21.2	A 133		30.578		50.298		0 21.79	AAAA AAAA
ATOM ATOM	1041	N	PHE	A 134		30.184				0 20.58	AAAA
MOTA	1043	CA	PHE	A 134		30.258				0 21.38 0 19.41	AAAA
MOTA	1044	CB	PHE .	A 134		29.168		47.731 48.126		0 18.32	AAAA
ATOM	1045	CG	PHE .	A 134		27.772				0 19.22	AAAA
MOTA	1046	CD:	1 PHE	A 134		27.023				0 19.14	AAAA
MOTA	1047	CD:	2 PHE	A 134		27.193 25.71			1.0	0 18.56	AAAA
MOTA	1048		1 PHE	A 134 A 134		25.88		6 49.644	1.0	0 17.72	AAAA
MOTA	1049	CE:		A 134		25.15		3 48.866	_	0 18.01	AAAA
MOTA	1050 1051	C		A 134		31.62	5 21.12	4 48.081	_	0 22.90	AAAA AAAA
MOTA	1052	o	PHE	A 134		32.45	9 21.83		_	0 23.37	AAAA
ATOM ATOM	1053	N	LYS	A 135		31.84				0 24.63 0 27.16	AAAA
ATOM	1054	CA	LYS	A -135		33.09			_	0 28.53	AAAA
ATOM	1055	CB	LYS	A 135		32.92			_	0 31.01	AAAA
ATOM		CG	LYS	A 135		34.13	3 16.84	J 40.23			•
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ATOM	1057	CD	LYS A 1	.35	33.879	15.472	48.910	1.00 32.75	AAAA
MOTA	1058		LYS A 1		33.961	15.495	50.457	1.00 33.96 1.00 33.04	AAAA AAAA
MOTA	1059		LYS A 1		35.371	15.664	50.976 46.673	1.00 33.04	AAAA
MOTA	1060		LYS A 1		33.577 34.769	19.390 19.596	46.437	1.00 27.35	AAAA
MOTA	1061		LYS A 1		34.765	19.354	45.714	1.00 27.32	AAAA
MOTA	1062		SER A 1 SER A 1		33.028	19.527	44.313	1.00 28.31	AAAA
MOTA	1063 1064		SER A 1		33.093	18.162	43.626	1.00 28.56	AAAA
MOTA	1065		SER A 1		33.822	17.242	44.417	1.00 29.28	AAAA
MOTA MOTA	1066		SER A 1		31.993	20.395	43.599	1.00 28.91	AAAA
ATOM	1067	0	SER A 1	.36	31.568	20.080	42.486	1.00 28.78	AAAA
ATOM	1068		ARG A 1		31.595	21.502	44.212	1.00 29.08 1.00 29.66	AAAA. AAAA
ATOM	1069		ARG A 1		30.574	22.311 21.528	43.576 43.657	1.00 23.60	AAAA
ATOM	1070		ARG A 1		29.259	22.273	43.355	1.00 33.89	AAAA
MOTA	1071		ARG A 1		27.989 26.862	21.267	43.373	1.00 35.93	AAAA
MOTA	1072	CD	ARG A 1		26.961	20.366	42.228	1.00 36.31	AAAA
ATOM	1073 1074	NE CZ	ARG A		26.505	20.660	41.015	1.00 35.99	AAAA
MOTA MOTA	1075		ARG A		25.915	21.834	40.798	1.00 34.63	AAAA
ATOM	1076		ARG A		26.650	19.786	40.025	1.00 35.35	AAAA
ATOM	1077	С	ARG A	137	30.402	23.723	44.116	1.00 28.53	AAAA AAAA
MOTA	1078	0	ARG A		30.418	23.946	45.324	1.00 28.51 1.00 27.53	AAAA
ATOM	1079	N	ALA A		30.247	24.673	43.202 43.581	1.00 27.64	
MOTA	1080	CA	ALA A		30.039 30.236	26.063 26.984	42.381	1.00 27.87	
MOTA	1081	CB	ALA A		28.601	26.130	44.079	1.00 27.27	
MOTA	1082	0	ALA A		27.769	25.321	43.671	1.00 28.30	
MOTA	1083 1084	N	ASN A		28.292	27.080	44.951	1.00 26.16	
ATOM ATOM	1085	CA	ASN A		26.945	27.134	45.480	1.00 25.39	
ATOM	1086	CB	ASN A	139	26.673	25.847	46.282	1.00 24.58	
ATOM	1087	CG	ASN A		25.343	25.872	47.017	1.00 25.37 1.00 24.20	
ATOM	1088	OD1	ASN A	139	24.272	26.017	46.413 48.338	1.00 24.20	
MOTA	1089		ASN A		25.408 26.683	25.720 28.358	46.341	1.00 24.90	
ATOM	1090	C	ASN A ASN A	139 -	27.346	28.570	47.348	1.00 24.98	
MOTA	1091 1092	N O	GLY A		25.702	29.145	45.916	1.00 24.46	
MOTA ATOM	1092	CA	GLY A		25.294	30.336	46.625	1.00 22.96	
ATOM	1094	C	GLY A		26.383	31.358	46.755	1.00 22.24	
ATOM	1095	0	GLY A		26.663	31.817	47.867	1.00 23.09	
ATOM	1096	N	PHE A		26.992	31.711	45.625 45.572	1.00 20.80	
MOTA	1097	CA	PHE A		28.075	32.700 33.920	46.430	1.00 19.86	
ATOM	1098	CB	PHE A		27.758 26.453	34.577	46.114	1.00 21.18	
MOTA	1099	CG	PHE A		25.974	35.592	46.934	1.00 20.49	
ATOM	1100 1101		PHE A		25.723	34.218	44.985	1.00 21.42	2 AAAA
MOTA MOTA	1102	CE1	PHE A	141	24.800	36.242	46.638	1.00 ?2.4	
MOTA	1103	CE2	PHE A	141	24.540	34.859	44.672	1.00 :1.70	
ATOM	1104	CZ	PHE A		24.072	35.881	45.499	1.00 '3.0!	
MOTA	1105	С	PHE A		29.396	32.132 32.784	46.069 45.944	1.00 19.19	
MOTA	1106	0	PHE A		30.438 29.367	30.930	46.635	1.00 16.9	
ATOM	1107	N	CYS A		30.594	30.332	47.150		
MOTA	1108	CA CB	CYS A		30.323	29.689	48.509	1.00 16.5	1 AAAA
MOTA	1109 1110	SG	CYS A		29.524	30.826		1.00 15.0	1 AAAA
MOTA MOTA	1111	c	CYS A		31.227			1.00 16.4	
ATOM	1112	ō	CYS A		30.533				
ATOM	1113	N	TYR A	143	32.558				9 AAAA 3 AAAA
ATOM	1114	CÀ	TYR A		33.340				
ATOM	1115	CB	TYR A	143	34.298				
ATOM	1116	CG	TYR A	143	33.664 33.480				
ATOM	1117	CDI	TYR A	143	32.856			1.00 21.6	3 AAAA
ATOM	1118	CD2	TYR A	143	33.212			1.00 20.1	4 አልጹአ
ATOM	1119 1120	CES	TYRA	143	32.588		41.507		
atom atom	1121	CZ	TYR A	143	32.414	32.135			AAAA 0
ATOM	1122	он	TYR A		31.787	33.071	41.228	1.00 23.3	0 WWW.

				1 4 2	2.4	.162	27.490	46.283	1.00	19.06	AAAA
MOTA	1123		TYR A			.319	25.289	46.032	1.00	18.40	AAAA
MOTA	1124		ryr A			.695	28.087	47.344	1.00	19.15	AAAA
MOTA			ILE A			.490	27.350	48.315	1.00	19.97	AAAA
ATOM			ILE A		_	.952	27.861	48.355		19.74	AAAA
MOTA			ILE A			.757	27.088	49.410		18.03	AAAA
MOTA			ILE A			.584	27.671	46.965		20.12	AAAA
MOTA		CG1	ILE A	144		.053	28.072	46.846	1.00	21.05	AAAA
ATOM			ILE A			.833	27.532	49.665	1.00	20.22	AAAA
MOTĄ			ILE A			.357	28.626	49.981	1.00	19.94	AAAA
MOTA			ILE A			.787	26.451	50.440	1.00	20.57	AAAA
MOTA			ASN A			.165	26.448	51.7.70	1.00	20.39	AAAA
MOTA			ASN A			.450	25.114	51.990	1.00	19.39	AAAA
MOTA		CB .	ASN A	145		.505	25.143	53.171		19.31	AAAA
MOTA		CG .	ASN A	145		.862	25.583	54.263	1.00	21.26	AAAA
MOTA		OD1	ASN A	145		.290	24.667	52.960	1.00	17.08	- AAAA
ATOM			ASN A			.236	26.621	52.856		20.17	AAAA
ATOM			ASN A			6.690	25.622	53.421	1.00	19.75	AAAA
MOTA			ASN A			6.644	27.862	53.148	1.00	20.06	AAAA
MOTA			ASN A			6.671	28.075	54.166	1.00	20.98	AAAA
ATOM			ASN A			7.019	29.573	54.333		21.78	AAAA
MOTA			ASN A			5.876	30.411	54.882	1.00	22.78	AAAA
MOTA	1144		ASN A			5.651	30.465	56.091	1.00	22.83	AAAA
MOTA	_	OD1	ASN A	146		5.144	31.078	53.983	1.00	23.70	AAAA
MOTA			ASN A	146		5.307	27.413	55.496	1.00	21.18	AAAA
MOTA		C	ASN A			7.169	26.823	56.139	1.00	21.48	AAAA
MOTA		0	ASN A			5.031	27.476	55.922	1.00	20.88	AAAA
MOTA		N	PRO A	147		3.835	28.120	55.358	1.00	21.85	AAAA
ATOM	1150	CD	PRO A	147	_	4.674	26.831	57.183		21.42	AAAA
MOTA	1151	CA				3.176	27.073	57.261	1.00	21.00	AAAA
MOTA	1152	CB	PRO A			3.052	28.408		1.00	20.47	AAAA
MOTA	1153	CG	PRO A			5.015	25.334			22.79	AAAA
MOTA	1154	С	PRO A	, 14/ 1/7		5.650	24.833		1.00	25.69	AAAA
MOTA	1155	0	PRO A	140		4.603	24:616			22.34	AAAA
MOTA	1156	N	ALA A	140		4.889	23.193		1.00	22.23	AAAA
ATOM	1157	CA	ALA A			4.260			1.00	22.87	AAAA
MOTA	1158	СВ	ALA A			6.378				22.33	AAAA
MOTA	1159	C	ALA A			6.912			1.0	23.42	AAAA
MOTA	1160	0	VAL A			7.050			1.0	0 22.50	AAAA
ATOM	1161	N	VAL A		3	8.505			1.0	0 21.29	AAAA
MOTA	1162	CA	VAL A			9.066			1.0	0 20.46	AAAA
MOTA	1163	CB	VAL A	149		0.578		54.085		0 19.36	AAAA
MOTA	1164	CC3	VAL A	149		8.608				0 20.03	AAAA
ATOM	1165	CG2	VAL A	149		9.164		3 56.367	1.0	0 21.48	AAAA
ATOM	1166	o	VAL A	149	4	0.147	23.19		1.0	0 22.11	AAAA
ATOM	1167 1168	N	GL" A		3	8.628	24.82	5 57.088		0 21.19	AAAA
ATOM		CA	GL A		3	9.171	25.17	58.386		0 21.70	AAAA
MOTA	1169 1170	C	GL'.	A 150		8.973			_	0 22.31	AAAA
MOTA	1171	ō		A 150	3	9.913	23.59			0 22.51	AAAA
ATOM	1172	Ŋ	TI.E	A 151	-	37.736	23.56			0 22.86	AAAA AAAA
ATOM	1173	CA	TLE	A 151		37.388	3 22.47	4 60.346	1.0	0 22.26	
MOTA	1173	CB	ILE 2	A 151	3	35.894	22.12		1.0	0 21.51	AAAA
ATOM	1175		ILE 2	A 151		35.542	20.89			0 21.36	AAAA
MOTA	1176	CG1	ILE	a 151		35.05	23.32	9 60.62	7 1.0	0 20.39	AAAA
MOTA		CD1	ILE	A 151		33.57	5 23.19	9 60.36	1.0	0 16.88	AAAA
ATOM		C	TLE	A 151		38.26				0 23.29	AAAA
MOTA		ō	TI.E	A 151		38.78	6 20.66			0 23.88	AAAA
ATOM		Ŋ	GI.II	A 152		38.43	5 20.85			0 24.13	AAAA
ATOM		CA	G1.11	A 152		39.26	7 19.69			00 25.01	AAAA
ATOM		CB		A 152		39.24	2 19.40			00 25.07	AAAA
ATOM		CG	CILI	A 152		37.91	0 18.88	6 56.52		00 24.56	AAAA
ATOM		CD	CT.II	A 152		37.50		0 57.19		00 25.00	AAAA
ATOM		(L)	1 GLU	A 152		36.34		8 57.01		00 26.40	AAAA
ATOM		UE.	2 GLU	A 152		38.31		5 57.89		00 25.00	AAAA
ATOM		C.	CT.TT	A 152		40.69		7 58.96		00 26.06	AAAA
ATOM		0	GLII	A 152		41.42		5 59.33	1 1.	00 26.40	AAAA .
ATOM	1188	•						•			•

		27	TYR A	152	41.085	21.225	58.925	1.00 27.30	AAAA
MOTA	1189	N CA	TYR A		42.422	21.632	59.334	1.00 27.63	AAAA
ATOM	1190	CB	TYR A		42.532	23.153	59.268	1.00 26.99	AAAA
MOTA	1191	CG	TYR A		43.856	23.719	59.710	1.00 27.03	AAAA
MOTA	1192		TYR A		44.942	23.790	58.837	1.00 27.78	AAAA
MOTA	1193	CE1	TYR A	153	46.165	24.356	59.250	1.00 28.40	AAAA
MOTA	1194				44.017	24.215	61.007	1.00 27.52	AAAA
MOTA	1195		TYR A		45.216	24.774	61.425	1.00 27.66	AAAA
ATOM	1196	CZ	TYR A		46.284	24.845	60.547	1.00 28.15	AAAA
MOTA	1197		TYR A		47.457	25.407	60.974	1.00 28.83	AAAA
MOTA	1198	ОН	TYR A		42.618	21.172	60.769	1.00 27.82	AAAA
MOTA	1199	С 0	TYR A		43.613	20.552	61.110	1.00 27.15	AAAA
MOTA	1200		LEU A		41.636	21.487	61.604	1.00 29.25	AAAA '
MOTA	1201	N CA	LEU A		41.665	21.138	63.014	1.00 29.35	AAAA
MOTA	1202	CB	LEU A		40.507	21.829	63.715	1.00 30.25	AAAA
MOTA	1203	CG	LEU A		40.685	23.346	63.792	1.00 31.10	AAAA
MOTA	1204 1205		LEU A		39.348	24.020	64.092	1.00 31.24	AAAA
MOTA	1205	CDI	LEU A	154	41.747	23.669	64.852	1.00 29.84	AAAA
ATOM	1207	C	LEU A		41.625	19.639	63.263	1.00 29.73	AAAA
ATOM	1207	0	LEU A		42.313	19.151	64.150	1.00 30.51	AAAA
ATOM	1200	N	ARG A		40.832	18.903	62.489	1.00 28.95	AAAA
ATOM	1210	CA	ARG A		40.771	17.459	62.671	1.00 28.94	AAAA
MOTA	1210	CB	ARG A		39.742	16.820	61.723	1.00 28.64	AAAA
MOTA	1212	CG	ARG A		38.312	17.312	61.952	1.00 27.82	AAAA
MOTA	1212	CD	ARG A		37.319	16.751	60.955	1.00 27.19	AAAA
MOTA	1213	NE	ARG A		36.804	15.444	61.338	1.00 28.86	AAAA
MOTA	1215	CZ	ARG A	155	35.939	14.742	60.612	1.00 28.93	AAAA
MOTA	1216		ARG A		35.500	15.227	59.459	1.00 29.47	AAAA
MOTA	1217	NH2		155	35.486	13.574	61.053	1.00 28.76	AAAA
ATOM	1218	C	ARG A	155	42.158	16.853	62.438	1.00 30.20	AAAA
MOTA MOTA	1219	ō	ARG A	155	42.572	15.949	63.164	1.00 30.74	AAAA
ATOM	1220	N	LYS A		42.890	17.362	61.447	1.00 30.32	AAAA
ATOM	1221	CA	LYS A		44.224	16.838	61.173	1.00 30.07	AAAA
ATOM	1222	CB	LYS A		44.771	17.373	59.847	1.00 30.26	AAAA
ATOM	1223	CG	LYS A	156	46.168	16.869	59.525	1.00 30.16	AAAA AAAA
ATOM	1224	CD	LYS A		. 46.686	17.368	58.181	1.00 31.19	AAAA
ATOM	1225	CE	LYS A		45.884	16.813	56.986	1.00 31.70	AAAA
ATOM	1226	NZ	LYS A	156	45.963	15.324	56.824	1.00 31.20	AAAA
ATOM	1227	С	LYS A	156	45.167	17.202	62.306	1.00 30.08 1.00 29.16	AAAA
ATOM	1228	0	LYS A		46.192	16.550	62.485	1.00 29.10	AAAA.
ATOM	1229	N	LYS A		44.816	18.252	63.053	1.00 30.00	AAAA
ATOM	1230	CA	LYS A	. 157	45.608	18.691	64.196 64.452	1.00 31.81	AAAA
ATOM	1231	CB	LYS A		45.446	20.201		1.00 32.12	AAAA
MOTA	1232	CG	LYS A		46.067	21.134		1.00 32.12	AAAA
ATOM	1233	CD	LYS A		47.580			1.00 32.66	AAAF
MOTA	1234	CE	LYS A	. 157	48.080	21.941		1.00 32.74	AAA
ATOM	1235	NZ	LYS A	157	49.556			1.00 31.73	. TAAA
MOTA	1236	С	LYS A	157	45.196				AAAA
MOTA	1237	0	LYS A	157	45.652			1.00 32.41	AAAA
ATOM	1238	N	GLY A		44.312				AAAA
MOTA	1239	CA	GLY A		43.901			1.00 32.65	AAAA
MOTA	1240	С	GLY A	158	42.604				AAAA
MOTA	1241	0	GLY A		42.182				AAAA
ATCM	1242	N	PHE A		41.960				AAAA
MOTA	1243	CA	PHE A		40.712	_			AAAA
ATOM	1244	CB	PHE A		40.220				AAAA
ATOM	1245	CG	PHE A	159	41.134				AAAA
MOTA	1246	CD:	1 PHE A	159	42.327				AAAA
MOTA	1247	CD:	2 PHE A	1 159	40.821				AAAA
MOTA	1248		1 PHE A	1 159	43.197				AAAA
MOTA	1249		2 PHE	1 159	41.689		-		AAAA
MOTA	1250			A 159	42.878				AAAA
ATOM	1251		PHE A	A 159	39.645				AAAA
ATOM	1252		PHE	A 159	39.568				AAAA
ATOM	1253			A 160	38.839				AAAA
MOTA	1254	CA	LYS	A 160	37.794				•

				160	3.8	.060	14.140	68.763	1.00 33.97	AAAA
MOTA	1255	CB .	LYS A	160		.410	13.491	68.457	1.00 35.31	AAAA
MOTA	1256		LYS A			.833	12.364	69.429	1.00 36.48	AAAA
MOTA	1257	CD	LYS A	160		.095	11.037	69.243	1.00 37.97	AAAA
MOTA	1258	CE	LYS A	160		.636	11.080	69.568	1.00 39.67	AAAA
MOTA	1259	NZ	LYS A	160		.385	15.941	68.210	1.00 31.68	AAAA
MOTA	1260	C	LYS A	160		.405	15.290	67.887	1.00 31.51	AAAA
ATOM	1261		LYS A			.291	17.114	68.819	1.00 31.11	AAAA
MOTA	1262	N	ARG A			.003	17.719	69.114	1.00 30.92	AAAA
MOTA	1263	CA	ARG A				17.592	70.604	1.00 31.78	AAAA
MOTA	1264	CB	ARG A			.655 .451	16.157	71.102	1.00 32.91	AAAA
MOTA	1265	CG	ARG A				16.126	72.570	1.00 33.26	AAAA
ATOM	1266	CD	ARG A			.994	16.797	73.476	1.00 34.01	AAAA
ATOM	1267	NE	ARG A			.929	16.404	73.698	1.00 34.88	AAAA
ATOM	1268	CZ	ARG A			.183	15.334	73.081	1.00 34.89	AAAA
MOTA	1269	NH1	ARG A	161		.675	17.084	74.537	1.00 34.71	AAAA
MOTA	1270	NH2	ARG A	161		.954	19.185	68.714	1.00 30.28	AAAA
MOTA	1271	C	ARG A			.061	20.059	69.529	1.00 29.86	AAAA
MOTA	1272	0	ARG A			.365	19.433	67.437	1.00 28.86	AAAA
MOTA	1273	N	ILE A			.774	20.774	66.862	1.00 26.41	AAAA
ATOM	1274	CA	ILE A			.788	20.762	65.464	1.00 26.87	AAAA
MOTA	1275	CB	ILE A			443	22.160	64.872	1.00 26.91	AAAA
ATOM	1276	CG2	ILE A	162		.453		65.578	1.00 28.19	AAAA
MOTA	1277	CG1	ILE A	162		.877	20.234 20.090	64.240	1.00 28.24	AAAA
MOTA	1278	CD1	ILE A	162	-	7.614		66.731	1.00 24.08	AAAA
ATOM	1279	С	ILE A			3.369	21.283 20.572	66.267	1.00 24.40	AAAA
ATOM	1280	0	ILE P			2.485	22.519	67.153	1.00 22.25	AAAA
ATOM	1281	N		163		3.153	23.126	57.074	1.00 20.48	AAAA
ATOM	1282	CA	LEU A			1.838	23.120	68.440	1.00 20.97	AAAA
MOTA	1283	CB		163		L.408	24.477	68.486	1.00 20.50	AAAA
MOTA	1284	CG		163		0.099	23.695	67.799	1.00 19.07	AAAA
ATOM	1285	CD1	LEU A	A 163		3.998	24.802	69.950	1.00 19.76	AAAA
MOTA	1286		LEU A	1 163		9.738	24.802	66.055	1.00 18.76	AAAA
ATOM	1287	С		A 163		1.801	24.241	65.894	1.00 18.41	AAAA
MOTA	1288	0	LEU A	A 163		2.756	24.344	65.368	1.00 17.85	AAAA
MOTA	1289	N		A 164		0.677	25.372	64.373	1.00 17.16	AAAA
MOTA	1290	CA		A 164		0.496	24.768	62.983	1.00 17.45	AAAA
ATOM	1291	CB		A 164		0.644	25.783	61.900	1.00 17.70	AAAA
MOTA	1292	CG	TYR .	A 164		0.484	26.772	61.701	1.00 16.23	AAAA
ATOM	1293		TYR .	A 164		1.444	27.734	60.721	1.00 17.35	AAAA
ATOM	1294	CE1		A 164		1.280	25.781	61.092	1.00 17.95	AAAA
MOTA	1295	CD2		A 164		9.350	26.746	60.103	1.00 18.03	AAAA
ATOM	1296	CE		A 164		9.173	27.717	59.919	1.00 17.30	AAAA
MOTA	1297	CZ		A 164		0.138	28.647		1.00 16.70	AAAA
ATOM	1298	OH		A 164		9.955	26.016		1.00 15.85	AAAA
ATOM	1299	С		A 164		9.123	25.351	64.416	1.00 16.44	AAAA
ATOM	1300	0	TYR	A 164		8.101	27.319		1.00 15.54	AAAA
ATOM	1301	N	ILE	A 165		9.115	28.088			AAAA
ATOM	1302	· CA	ILE	A 165		7.878	28.819			AAAA
ATOM	1303	CB	ILE	A 165	2	7.869				AAAA
ATOM	1304		2 ILE	A 165		6.621				AAAA
ATOM	1305		1 ILE	A 165		8.000				AAAA
ATOM	1306	CD:		A 165		8.356				AAAA
ATOM	1307		ILE	A 165		7.808				AAAA
ATOM	1308	0	ILE	A 165		8.711				AAAA
MOTA	1309	N	ASP	A 166		26.721				AAAA
MOTA	1310	ÇA	ASP	A 166		26.524				AAAA
MOTA	1311	СЗ	ASP	A 166	-	26.240	29.066			AAAA
ATOM	1312	CG	ASP	A 166		26.238				AAAA
ATOM	1313	OD	1 ASP	A 166		25.353				AAAA
ATOM	1314		2 ASP	A 166		27.131				AAAA
ATOM	1315		ASP	A 166		25.342				AAAA
ATOM			ASP	A 166		24.206				AAAA
ATOM			LEU	A 167		25.605				AAAA
MOTA			LEU	A 167		24.526				
ATOM			LEU	A 167		24.923				AAAA
ATOM			LEU	A 167		25.499	33.52	9 64.95	2 1.00 10.57	

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ATOM	1321	CD1	LEU	A	167		25.760	34.671	65.933	1.00 18.72	AAAA
MOTA	1322		LEU				24.566	32.507	65.547	1.00 17.06	KAAA
ATOM	1323	C	LEU				24.146	·33.897	61.307	1.00 17.18	AAAA
ATOM	1324	ō	LEU				23.390	34.850	61.358	1.00 17.21	KAAA
ATOM	1325	N	ASP				24.683	33.457	60.178	1.00 17.83	AAAA
	1326	CA	ASP				24.382	34.067	58.904	1.00 17.84	AAAA
MOTA	1327		ASP				25.178	33.397	57.807	1.00 20.42	KÆAA
MOTA	132.7	CG .	ASP				25.140	34.162	56.529	1.00 21.41	AAAA
MOTA	1329	C	ASP				22.915	33.783	58.660	1.00 18.35	AAAA
MOTA	1330	0	ASP				22.419	32.722	59.032	1.00 19.62	AAAA
MOTA	1331		ASP			_	26.066	34.972	56.330	1.00 22.42	AAAA
MOTA	1332	003	ASP	Δ	168		24.186	33.971	55.746	1.00 21.79	AAAA
MOTA	1332	N N	ALA				22.239	34.717	58.010	1.00 17.98	AAAA
MOTA		CA	ALA				20.824	34.601	57.708	1.00 17.36	AAAA
ATOM	1334 1335	CB	ALA				20.348	35.860	57.007	1.00 17.00	AAAA
MOTA	1336	C	ALA				20.439	33.377	56.88 7	1.00 18.64	AAAA
MOTA	1337	0	ALA				19.255	33.043	56.819	1.00 19.46	AAAA
MOTA	1338	N			170		21.412	32.712	56.262	1.00 18.71	AAAA
MOTA	1339	CA			170		21.107	31.518	55.464	1.00 18.43	AAAA
MOTA	1340	C			170		21.802	30.265	55.986	1.00 18.02	AAAA
ATOM	1341	0			170		22.910	30.332	56.514	1.00 17.20	AAAA
ATOM	1342	CB			170		21.539	31.678	54.004	1.00 18.79	AAAA
ATOM	1342	CG			170		21.137	32.968	53.386	1.00 17.65	AAAA
MOTA	1344		HIS				21.644	34.162	53.828	1.00 18.08	AAAA
MOTA	1345		HIS				- -	35.081	53.054	1.00 18.95	AAAA
MOTA	1346		HIS				20.301	33.194	52.348	1.00 18.81	AAAA
ATOM	1347		HIS				20.291	34.544	52.140	1.00 19.66	AAAA
MOTA	1348	N			171		21.142	29.124	55.793	1.00 17.53	AAAA
MOTA MOTA	1349	CA			171		21.662	27.822	56.193	1.00 16.38	AAAA
ATOM	1350	CB			171		20.644	26.740	55.830	1.00 16.32	AAAA
ATOM	1351	CG			171		21.157	25.337	55.958	1.00 15.91	AAAA
ATOM	1352		HIS				21.241	24.336	55.051	1.00 14.14	AAAA
ATOM	1353		HIS				21.602	24.807	57.151	1.00 16.79	AAAA
ATOM	1354		HIS				21.937	23.543	56.973	1.00 14.91	AAAA
ATOM	1355	NE2	HIS	Α	171		21.725	23.234	55.709	1.00 15.45	AAAA
ATOM	1356	С			171		22.982	27.522	55.509	1.00 16.94	AAAA
ATOM	1357	0			171		23.146	27. 725	54.318	1.00 18.71	AAAA AAAA
ATOM	1358	N	CYS	Α	172		23.926	27.019	56.279	1.00 16.99	AAAA
MOTA	1359	CA			172		25.237	26.670	55.778	1.00 16.23	AAAA
ATOM	1360	CB			172		26.219	26.721	56.947	1.00 17.89	AAAA
ATOM	1361	SG	CYS	Α	172		25.638	25.773	58.397	1.00 17.89 1.00 16.57	AAAA
ATOM	1362	С			172		25.205	25.271	55.210	1.00 16.57 1.00 17.66	AAAA
ATOM	1363	0			172		25.947	24.413	55.670	1.00 17.00	AAAA
ATOM	1364	N			173		24.364	25.026	54.214 53.620	1.00 19.91	AAAA
ATOM	1365	CA	ASP	,	173		24.253	23.680		1.00 20.86	AAAA
ATOM	1366	CB	ASP	, ,	173		23.342	23.699	52.397	1.00 20.80	AAAA
MOTA	1367	CG	ASP	· .	173		23.780	24.719	51.358 50.217	1.00 21.35	AAAA
MOTA	1368	OD1	ASP	2	173		23.257	24.640	51.687	1.00 21.35	AAAA
MOTA	1369	OD2	ASP	7	173		24.624	25.597	53.227	1.00 21.02	AAAA
MOTA	1370	С			173		25.573	23.021	53.227	1.00 22.79	AAAA
MOTA	1371	0			173		25.673	21.785	52.912	1.00 20.03	AAAA
ATOM	1372	N			174		26.579	23.832	52.553	1.00 19.72	AAAA
MOTA	1373	CA	GLY		174		27.870	23.277		1.00 20.27	AAAA
ATOM	1374	С			174		28.537	22.680		1.00 19.77	AAAA
MOTA	1375	0			174		29.110	21.599		1.00 21.38	AAAA
ATOM	1376	N			175		28.448		54.893		AAAA
MOTA	1377	CA			175		29.056		56.135 57.203		AAAA
ATOM	1378	CB	VAI	. Z	175		29.032				AAAA
ATOM	1379	CGI	L VAI	į	175		29.853				AAAA
ATOM	1380	CG2	IAV :	. :	175		29.562				AAAA
ATCM	1381	С	VAI	. ž	175		28.302				AAAA
ATOM	1382	0	VAI		A 175		28.893				AAAA
ATOM	1383	N	GLN	1 2	A 176		26.993				AAAA
ATOM	1384	CA	GLI	1 1	A 176		26.171				
ATCM	1385	CB	GLI	N A	A 176		24.689				AAAA
ATOM	1386	CG	GLì	1	A 176		23.799	19.735	, 2,.036		-

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3 TOM	1387	CD G	LN A	176	22.3	34	20.094	57.069	1.00	27.17	AAAA
ATOM ATOM	1388		LN A		21.9		20.879	57.911	1.00	28.24	AAAA AAAA
ATOM	1389	NE2 G	LN A	176	21.5		19.522	56.151	1.00		AAAA
ATOM	1390	C 6	LN A	176	26.5		19.293	56.180	1.00		AAAA
MOTA	1391		LN A		26.7		18.285	56.820 54.853	1.00		AAAA
MOTA	1392	N C	LU A	177	26.4		19.309 18.117	54.073		26.18	AAAA
MOTA	1393	CA C	LU A	177	26.7 26.7		18.468	52.580	1.00	27.13	`AAAA
MOTA	1394		LU A		26.7		17.269	51.628		29.77	AAAA
MOTA	1395	CG C	GLU A	177	26.6		17.660	50.147		31.29	AAAA
MOTA	1396 1397		SLU A		27.6		17.935	49.500		31.35	AAAA
ATOM	1398	OE2	GLU A	177	25.4		17.703	49.636		32.05	AAAA
MOTA MOTA	1399	c	GLU A	177	28.1		17.556	54.460		26.38	AAAA AAAA
ATOM	1400	0	GLU A	177	28.3	_	16.349	54.595	1.00	25.41 27.58	AAAA
ATOM	1401	N Z	ALA A	178	29.1		18.458 18.119	54.659 55.004	1 00	27.66	- AAAA
MOTA	1402		ALA A		30.4		19.385	54.994		26.20	AAAA
MOTA	1403	CB A	ALA A	178	31.3 30.3		17.370	56.318		28.33	AAAA
MOTA	1404		ALA A ALA A		31.6		16.626	56.439	1.00	29.44	AAAA
MOTA	1405		PHE A		29.8		17.564	57.308	1.00	28.25	AAAA
ATOM	1406 1407		PHE A		30.0	036	16.852	58.561		29.20	AAAA
ATOM ATOM	1408		PHE A		30.5		17.794	59.624	1.00	29.35	AAAA AAAA
ATOM	1409	CG	PHE A	179	31.		18.572	59.171		30.26 31.01	AAAA
MOTA	1410	CD1.	PHE A	179	31.		19.777	58.497 59.339		30.37	AAAA
MOTA	1411	CD2	PHE A	179	33. ¹ 32.		18.069 20.470	57.993	1.00	31.20	AAAA
MOTA	1412	CEl	PHE A	179	34.		18.749	58.840		31.74	AAAA
ATOM	1413		PHE A		33.		19.960	58.161		31.81	AAAA
MOTA	1414 1415		PHE A		28.		16.180	59.040		30.33	AAAA
MOTA	1415		PHE A		28.		15.810	60.215	1.00	31.82	AAAA
MOTA MOTA	1417	N	TYR A	180	27.		15.994	58.105	1.00	29.18 28.99	AAAA AAAA
ATOM	1418		TYR A	180	26.		15.379	58.389 57.123		28.30	AAAA
ATOM	1419	CB	TYR A	180	25.		15.343 15.422	57.384		28.27	AAAA
MOTA	1420	CG		180		244 392	14.386	57.021	1.00	27.05	AAAA
MOTA	1421		TYR A			029	14.491	57.197	1.00	28.51	AAAA
MOTA	1422	CE1	TYR A			686	16.573	57.942	1.00	29.34	AAAA
ATOM	1423 1424	CE2	TYR A			316	16.691	58.125		29.27	AAAA AAAA
MOTA MOTA	1425	CZ	TYR A			495	15.645	57.746	1.00	29.33 30.83	AAAA
ATOM	1426	OH	TYR A	180		141	15.775		1.00	28.79	AAAA
ATOM	1427	С	TYR A			673	13.970 13.577		1.00	28.71	AAAA
MOTA	1428	0	TYR A	180		.877 .662	13.214		1.00	29.03	AAAA
MOTA	1429	N	ASP A			813	11.828		1.00	28.49	AAAA
ATOM	1430	CA CB	ASP A			140	10.930	57.715	1.00	27.59	AAAA
MOTA	1431 1432	CG	ASP A			548	11 122	57.229	1.00	28.82	AAAA
MOTA MOTA	1433		ASP A	181	29	981	12 292	57.183		29.25 28.68	AAAA AAAA
ATOM	1434	OD2	ASP A	181			,10 119	56.887		27.67	AAAA
ATOM	1435	С	ASP A			. 863	11.631			0 27.57	AAAA
ATOM	1436	0 .	ASP A	181		.271	10.504 12.713		1.0	0 26.27	AAAA
ATCM	1437	N	THR A			.284	12.544		1.0	0 26.22	AAAA
ATOM	1438	CA	THR A			.670	13.118		1.0	0 25.92	AAAA
MOTA	1439 1440	CB OG1	THR			.564	12.935			0 25.06	AAAA
ATCM ATOM	1441	_			31	.577	14.594			0 25.25	AAAA AAAA
ATOM	1442		THR	A 182		.792	13.223			0 25.87° 0 26.35	AAAA
ATOM	1443			A 182		.942	14.102			0 25.86	AAAA
ATCM	1444	11	ASP .	A 183		.327	12.804 13.37			0 26.12	AAAA
ATOM	1445		ASP .	A 183		.953 .468			1.0	0 27.10	AAAA
ATOM	1446		ASP	A 183 A 183	3 U S	.515			3 1.0	0 28.80	AAAA
ATOM	1447		ASP	A 183		.063		1 65.480	_	0 29.78	AAAA
ATOM	1448 1449		ASP	A 183		.781	10.85		_	0 29.21	AAAA AAAA
ATOM ATOM	1450	_	ASP	A 183	31	.126	14.12	0 65.99	_	0 26.77	AAAA
ATOM			ASP	A 183		.034				0 26.65 0 26.05	AAAA
ATCM			GLN	A 184	32	.229	14.25	4 03.43			•

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ATOM	1453	CA	GLN A	184	33.381	14.983	65.766	1.00 25.85	AAAA
ATOM	1454		GLN A		34.674	14.510	65.095	1.00 26.30	AAAA
ATOM	1455		GLN A		34.920	13.030	65.303	1.00 27.42	AAAA
ATOM	1456		GLN A		36.273	12.583	64.822	1.00 28.40	AAAA
ATOM	1457	OE1	GLN A	184	36.685	12.905	63.709	1.00 30.05	AAAA
MOTA	1458	-	GLN A		36.970	11.816	65.651	1.00 29.24	AAAA
MOTA	1459		GLN A		33.159	16.474	65.536	1.00 25.22	AAAA
MOTA	1460		GLN A		33.734	17.316	66.220	1.00 24.57 1.00 25.17	AAAA AAAA
MOTA	1461		VAL A		32.290	16.791	64.584	1.00 25.17	AAAA
MOTA	1462	CA	VAL A		31.975	18.182	64.291 62.832	1.00 24.49	AAAA
MOTA	1463		VAL A		32.324	18.563 20.060	62.599	1.00 19.72	AAAA
ATOM	1464		VAL A		32.045 33.777	18.205	62.543	1.00 20.67	AAAA
ATOM	1465		VAL A		30.494	18.421	64.501	1.00 24.81	AAAA
ATOM	1466	0	VAL A		29.664	17.787	63.844	1.00 27.07	AAAA
MOTA	1467 1468	N	PHE A		30.162	19.311	65.434	1.00 23.40	AAAA
MOTA MOTA	1469	CA	PHE A		28.768	19.645	65.684	1.00 20.31	AAAA
ATOM	1470	CB	PHE A		28.513	19.937	67.164	1.00 19.77	AAAA
MOTA	1471	CG	PHE A		27.057	20.037	67.500	1.00 18.55	AAAA
ATOM	1472	CD1	PHE A	186	26.359	18.918	67.945	1.00 17.70	AAAA
MOTA	1473		PHE A		26.358	21.213	67.263	1.00 17.46	АААА АААА
ATOM	1474	CE1	PHE A		24.999	18.964	68.147	1.00 17.35	AAAA
ATOM	1475	CE2	PHE A		24.997	21.271	67.459	1.00 18.83 1.00 18.67	AAAA
ATOM	1476	CZ	PHE A		24.308	20.138	67.905 64.895	1.00 19.18	AAAA
MOTA	1477	С	PHE A		28.464	20.911 21.940	65.129	1.00 13.10	AAAA
MOTA	1478	0	PHE A		29.079 27.520	20.834	63.964	1.00 18.34	AAAA
MOTA	1479	N	VAL A		27.137	21.993	63.160	1.00 16.47	AAAA
MOTA	1480	CA CB	VAL A		27.006	21.630	61.655	1.00 14.30	AAAA
MOTA	1481 1482		VAL A		26.628	22.869	60.828	1.00 10.34 .	AAAA
MOTA MOTA	1483		VAL A		28.314	21.031	61.160	1.00 12.07	AAAA
ATOM	1484	c	VAL A		25.806	22.511	63.665	1.00 17.43	AAAA
ATOM	1485	Ō	VAL A		24.852	21.746	63.792	1.00 16.95	AAAA
ATOM	1486	И	LEU A	188	25.763	23.809	63.960	1.00 18.66	AAAA
ATOM	1487	CA	LEU A	. 188	24.555	24.507	64.460	1.00 20.51 1.00 21.24	, AAAA ,
ATOM	1488	CB	LEU A		24.752	24.995	65.914 66.395	1.00 21.24	AAAA
ATOM	1489	CG	LEU A		23.702	26.019 25.323	66.493	1.00 19.77	AAAA
MOTA	1490		LEU A		22.365 24.085	26.627	67.750	1.00 20.63	AAAA
ATOM	1491		LEU A		24.297	25.735	63.591	1.00 20.41	AAAA
ATOM	1492 1493	С 0	LEU A		25.223	26.484	63.288	1.00 21.86	AAAA
MOTA	1494	N	SER A		23.049	25.987	63.233	1.00 19.32	AAAA
ATOM ATOM	1495	CA	SER A		22.786	27.130	62.381	1.00 18.06	AAAA
ATOM	1496	CB	SER A		22.970	26.715	60.906	1.00 18.54	AAAA
ATOM	1497	OG	SER A		22.559	27.731	59.998	1.00 17.47	AAAA
A TOM	1498	C	SER A	189	21.418	27.751	62.554	1.00 17.90	AAAA AAAA
MO'L A	1499	၁	SER A		20.404	27.051	62.540	1.00 19.54 1.00 16.97	AAAA
A_OM	1500	N	LEU A		21.386	29.067	62.722 62.797	1.00 18.49	AAAA
ATOM	1501	CA	LEU A		20.117	29.772 30.865	63.886	1.00 17.78	AAAA
MOTA	1502	ÇВ	LEU A		20.097 20.534	30.600	65.337		AAAA
MOTA	1503	CG	LEU A		19.643	31.406	66.266	1.00 15.50	AAAA
ATOM	1504		LEU A		20.455	29.147	65.686	1.00 15.15	AAAA
ATOM	1505 1506	CD2	LEU A		20.111	30.408	61.416	1.00 19.35	AAAA
MOTA ATOM	1507	5	LEU A		21.136	30.891	60.967	1.00 19.75	AAAA
ATOM	1508	Ŋ	HIS A		18.975	30.397	60.736	1.00 21.75	AAAA
ATOM	1509	CA	HIS A		18.897	30.955	59.383	1.00 23.55	AAAA
ATOM	1510	CB	HIS A	191	19.626	30.013	58.426	1.00 23.63	AAAA
ATOM	1511	CG	HIS A	191	19.157	28.597	58.533	1.00 24.26	AAAA
ATOM	1512	CD2	HIS A	191	19.770	27.485	59.009	1.00 23.78	AAAA AAAA
ATOM	1513	ND1	HIS A	191	17.869	28.217	58.217	1.00 24.73 1.00 23.90	AAAA
ATOM	1514	CE1	HIS A	191	17.709	26.935	58.491		AAAA
ATOM	1515		HIS A	191	18.849	26.467			AAAA
ATOM	1516	C		A 191	17.446	31.119 30.658			AAAA
ATOM	1517	0	GLN A	A 191 A 192	16.519 17.249	31.789			٠ ٨٨٨٨
MOTA	1518	N	· GTMA 1	- 176	17.443	52.,05	•	_	•

							F7 260	1.00 25.77	AAAA
ATOM	1519	CA	GLN A	192	15.899	31.959	57.269		
•	1520		G <u>L</u> N A		15.881	32.896	56.060	1.00 26.51	AAAA
MOTA		CD	CINA	102	16.467	34.271	56.325	1.00 26.99	AAAA
MOTA	1521		GLN A				55.062	1.00 27.98	AAAA
MOTA	1522		GLN A		16.581	35.076			AAAA
MOTA	1523	OE1	GLN A	192	15.583	35.496	54.493	1.00 30.48	
	1524		GLN 2		17.802	35.274	54.595	1.00 29.04	AAAA
MOTA					15.463	30.573	56.832	1.00 25.77	AAAA
ATOM	1525		GLN A					1.00 26.73	AAAA
ATOM	1526		GLN A		16.211	29.865	56.169		AAAA
ATOM	1527	N	SER A	193	14.259	30.184	57.214	1.00 25.48	
			SER A		13.750	28.877	56.863	1.00 24.51	AAAA
MOTA	1528				12.288	28.788	57.286	1.00 23.77	AAAA
MOTA	1529		SER A				57.010	1.00 24.81	AAAA
ATOM	1530	0G	SER A	193	11.753	27.517			AAAA
MOTA	1531	С	SER A	A 193	13.906	28.597	55.361	1.00 24.53	
	1532	0	SER A	A 193	13.736	29.479	54.522	1.00 22.32	AAAA
MOTA				A 194	14.226	27.348	55.007	1.00 25.69	AAAA
MOTA	1533				14.411	26.167	55.862	1.00 25.02	AAAA
ATOM	1534	CD		A 194				1.00 27.05	AAAA
ATOM	1535	CA		A 194		26.976	53.604		
ATOM	1536	CB	PRO A	A 194 :	14.906	25.535	53.697	1.00 26.30	AAAA
	1537	CG		A 194	15.479	25.466	55.124	1.00 26.44	AAAA
ATOM			DD0 :	A 194	13.076	27.057	52.849	1.00 27.79	AAAA
MOTA	1538	С				27.057	51.625	1.00 28.82	AAAA
ATOM	1539	0		A 194	13.066			1.00 28.29	AAAA
MOTA	1540	N	GLU Z	A 195	11.966	27.133	53.582		
	1541	CA		A 195	10.656	27.187	52.950	1.00 29.08	AAAA
ATOM			CLII	A 195	9.534	27.030	54.001	1.00 31.08	AAAA
MOTA	1542	CB			9.070	28.294	54.722	1.00 35.07	AAAA
MOTA	1543	CG		A 195				1.00 38.05	AAAA
MOTA	1544	CD		A 195	7.850	28.980	54.064		
ATOM	1545	OE1	GLU .	A 195	7.389	30.017	54.601	1.00 38.80	AAAA
		OES	CIII	A 195	7.342	28.487	53.024	1.00 39.20	AAAA
MOTA	1546		GLU .	7 105	10.483	28.471	52.150	1.00 28.05	AAAA
MOTA	1547	С	GLU .	A 195			51.189	1.00 28.57	AAAA
ATOM	1548	0	GLU .	A 195	9.722	28.512		1.00 27.39	AAAA
ATOM	1549	N	TYR	A 196	11.223	29.510	52.514	1.00 27.39	
	1550	CA	TYR	A 196	11.108	30.769	51.802	1.00 25.80	AAAA
ATOM			mVD	A 196	10.275	31.743	52.645	1.00 24.97	AAAA
MOTA	1551	CB			10.971	32.281	53.868	1.00 23.41	AAAA
MOTA	1552	CG		A 196			53.765	1.00 23.99	AAAA
ATOM	1553	CD1		A 196	11.911	33.306		1.00 23.44	AAAA
ATOM	1554	CE1	TYR	A 196	12.559	33.805	54.892		
	1555	CD2		A 196	10.697	31.768	55.126	1.00 23.24	AAAA
				A 196	11.336	32.256	56.254	1.00 23.93	AAAA
ATOM	1556	CE2			12.265	33.270	56.133	1.00 24.07	AAAA
ATOM	1557	CZ	TYR	A 196			57.247	1.00 25.06	AAAA
MOTA	1558	OH	TYR	A 196	12.913	33.731		1.00 24.97	AAAA
ATOM	1559	С	TYR	A 196	12.450	31.406	51.411	1.00 24.97	
	1560	Ö	TVR	A 196	12.475	32.495	50.840	1.00 25.14	AAAA
MOTA			27.2	A 197	13.563	30.737	51.686	1.00 23.81	AAAA
MOTA	1561	N	with	2 107	14.855	31.330	51.337	1.00 23.32	AAAA
MOTA	1562	CA		A 197			52.488	1.00 23.33	AAAA
ATOM	156 3	CB	ALA	A 197	15.350	32.220		1.00 22.74	AAAA
ATOM -	1564	С	ALA	A 197	15.952	30.356	50.957	1.00 22.74	
•	1565	ō.	ב.זב	A 197	15.951	29.207	.51.37	1.00 22.47	AAAA
ATOM			DUE	A-198	. 16, 900	30.852	50.16	1.00 23.23	AAAA
ATOM -		N	PRE	A. 100		30.081		1.00 23.68	AAAA
ATOM	1567	CA		A 198				1.00 23.33	AAAA
ATOM	1568	CB	PHE	A 198	19.083	31.006		1.00 23.33	AAAA
ATOM	1569	CG	PHE	A 198	20.250	30.280		1.00 22.98	
				A 198	20.151	29.713	47.203	1.00 22.75	AAAA
MOTA	1570	CDI	FILL	3 100	21.436			1.00 23.32	AAAA
MOTA	1571	CDZ	PRE	A 198				1.00 22.13	AAAA
MOTA	1572	CE1	PHE	A 198	21.207		40.043	1.00 22.83	AAAA
ATOM	1573	CE2	PHE	A 198	22.512		48.622	1.00 22.65	AAAA
	1574	CZ	DHE	A 198	22.386	28.849	47.351	1.00 22.55	
MOTA				à 198	18.689		51.008	1.00 23.69	AAAA
ATOM	1575	C			18.802		_		AAAA
MOTA	1576	0	PHE	A 198				1.00 23.96	AAAA
ATOM	1577	N	PRO	A 199	19.166				AAAA
	1578	CD	PRO	A 199	19.833			1.00 24.26	
MOTA		CA		À 199	19.199		49.837	1.00 24.70	AAAA
ATOM	1579		240	A 199	20.163		_	1.00 23.30	AAAA
ATOM	1580	CB				_			AAAA
ATOM	1581	CG		A 199	19.797				AAAA
ATOM	1582	С		A 199	17.885				AAAA
	1583	ō		A 199	17.866	26.145			
ATOM			DNE	A 200	16.811			1.00 25.09	AAAA
ATOM	1584	N	rnc	A 200	10.011				

					6	mu .,				
			»	200	•	15.497	26.190	49.763	1.00 26.29	AAAA
MOTA		A F	PHE A	200		15.064	26.567	48.340	1.00 25.65	AAAA
MOTA		B E	PHE A	200		14.863	28.035	48.122	1.00 24.65	AAAA
MOTA	1587 C	ים. זורי	PHE A	200		15.806	28.781	47.439	1.00 24.42	AAAA
MOTA	1589 C	D2 I	PHE A	200		13.735	28.671	48.608	1.00 23.79	AAAA
MOTA ATOM	1590 C	El I	PHE A	200		15.631	30.125	47.246	1.00 24.41	AAAA
ATOM	1591	E2 1	PHE A	200		13.552	30.035	48.418	1.00 24.94	AAAA AAAA
ATOM		:z 1	PHE A	200		14.499	30.760	47.738	1.00 24.57 1.00 28.54	AAAA
ATOM	1593 C	: 1	PHE A	200		15.415	24.656	49.863	1.00 28.76	AAAA
ATOM	1594)	PHE A	200		14.386	24.096	50.251 49.504	1.00 29.67	AAAA
ATOM	1595 N	1 (GLU A	201		16.499	23.981 22.528	49.524	1.00 31.88	AAAA
MOTA		A C	GLU A.	201		16.539 17.434	22.045	48.392	1.00 32.71	AAAA
MOTA			GLU A	201	•	16.897	22.415	47.017	1.00 34.87	AAAA
ATOM		CG (GLU A	201		17.898	22.147	45.912	1.00 35.14	AAAA
MOTA		D (GLU A	201		18.299	20.982	45.735	1.00 36.09	- AAAA
MOTA	1600 C	757 J	GLU A	201		18.286	23.112	45.221	1.00 36.30	AAAA
MOTA		2 .	GLU A	201		16.997	21.894	50.835	1.00 32.77	AAAA
MOTA MOTA		5	GLU A	201		16.806	20.690	51.046	1.00 33.44	AAAA AAAA
ATOM	_	N	LYS A	202		17.599	22.690	51.711	1.00 32.31 1.00 32.09	AAAA
MOTA		CA	LYS A	202	•	18.101	22.168		1.00 32.09	AAAA
ATOM	1606		LYS A			19.565	21.750	52.811 51.623	1.00 33.02	AAAA
MOTA			LYS A	202		19.836	20.847 20.619	51.623	1.00 37.92	AAAA
MOTA		CD	LYS A	202		21.334 21.655	19.804	50.169	1.00 39.19	AAAA
MOTA		CE	LYS A	202		23.120	19.522	49.988	1.00 38.58	AAAA
MOTA			LYS A	202		17.995	23.241	54.037	1.00 30.85	AAAA
MOTA			LYS A			17.706	24.389	53.739	1.00 30.49	አልልል
ATOM		N	GLY A	203		18.238	22.867	55.281	1.00 30.81	AAAA
MOTA MOTA		CA	GLY A	203		18.159	23.831	56.356	1.00 30.86	AAAA
ATOM		C	GLY A	203	•	16.991	23.578	57.280	1.00 30.84	AAAA AAAA
ATOM		ō	GLY A	203		16.828	24.285	58.272	1.00 31.58 1.00 30.54	AAAA
ATOM	1617 ·	N	PHE A	204		16.182	22.570	56.965 57.797	1.00 30.51	AAAA
ATOM	1618	CA	PHE A	204		15.025	22.241 21.317	57.058	1.00 29.06	AAAA
MOTA		CB	PHE A	204		14.061 13.524	21.890	55.787		AAAA
ATOM		CG	PHE A	204		14.222	21.762	54.601	1.00 26.52	AAAA
ATOM	1621	CDI	PHE A	204		12.307	22.548	55.779	1.00 26.50	AAAA
MOTA	1622 1623	CDZ	PHE A	204		13.713	22.276	53.420	1.00 26.44	AAAA
MOTA	1624	CE2	PHE P	204		11.786	23.069		1.00 26.69	AAAA AAAA
ATOM ATOM		CZ	PHE A	204		12.490	22.931		1.00 25.65	AAAA
ATOM	1626	c	PHE A	204		15.401	21.590		1.00 30.87 1.00 31.12	AAAA
ATOM	1627	0	PHE A	204		16.395	20.875		1.00 31.12	AAAA
ATOM	1628	N	LEU A			14.580	21.844	_	1.00 31.43	AAAA
ATOM	1629	CA	LEU A	205		14.782	21.529		1.00 31.42	AAAA
ATOM	1630	CB	LEU A	1 2 5		13.575 13.603	21.078		1.00 31.76	AAAA
MOTA	1631	CG	LEU A	7 772		14.894	21.492		1.00 32.36	AAAA
MOTA	1632	CDI	LEU A	205		12.379	21.516		1.00 31.31	AAAA
MOTA	1633 1634	CDZ	LEU	A 205		15.026	19.829	61.625	1.00 31.35	AAAA
MOTA	1635	0	LEU	A 205		15.714	19.392	62.546		AAAA
MOTA MOTA	1636	N		A 206		14:448				AAAA AAAA
ATOM	1637	CA	GLU	A 206		14.509				AAAA
MOTA	1638	CB.		A 206		13.485				AAAA
ATOM	1639	CG	GLU	A 206		12.069		·		AAAA
ATOM	1640	CD	GLU .	A 206		11.973				AAAA
ATOM	1641	_	GLU .	A 206		10.854 13.005	•		1.00 35.12	AAAA
MOTA	1642	OE2	GLU .	A 206		15.882			1.00 32.34	AAAA
MOTA	1643	C		A 206 A 206		16.209			1.00 31.83	AAAA
MOTA	1644	0	GLU .	A 200		16.680			1.00 32.45	AAAA
ATOM	1645	N CA		A 207		18.017	17.431	L 59.287		AAAA
ATOM	1646 1647	CB	GLU	A 207		18.552		5 58.238		AAAA
MOTA		CG	GLU	A 207		17.768	18.316			AAAA AAAA
MOTA MOTA	1649	CD	GLU	A 207		17.953	19.547			AAAA
MOTA		OE1	GLU	A 207		19.108	19.99	55.97	1.00 30.31	

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ATOM 1651 OEZ GLU À 207 19.492 17.493 20.537 1.00 32.04 AAAA ATOM 1653 C GLU À 207 19.472 18.492 60.101 1.00 31.57 AAAA ATOM 1654 N ILE À 208 19.674 16.111 62.408 1.00 33.37 AAAA ATOM 1655 CG LILE À 208 19.674 16.111 62.408 1.00 33.37 AAAA ATOM 1655 CG LILE À 208 19.674 16.111 62.408 1.00 33.37 AAAA ATOM 1655 CG LILE À 208 19.674 16.11 62.408 1.00 33.37 AAAA ATOM 1655 CG LILE À 208 19.674 16.11 62.408 1.00 33.37 AAAA ATOM 1655 CG LILE À 208 19.674 16.11 62.408 1.00 37.00 AAAA ATOM 1659 CD LILE À 208 17.673 16.742 63.757 1.00 33.94 AAAA ATOM 1659 CD LILE À 208 21.506 14.629 63.656 64.794 1.00 37.00 AAAA ATOM 1650 CD LILE À 208 21.506 14.629 63.656 4.00 34.40 AAAA ATOM 1665 CA GLY À 209 21.107 14.768 16.065 1.00 34.40 AAAA ATOM 1665 CA GLY À 209 21.148 12.671 66.057 1.00 35.55 AAAA ATOM 1665 CA GLY À 209 21.148 12.415 99.400 1.00 37.12 AAAA ATOM 1666 CA GLY À 209 21.148 12.451 99.400 1.00 37.12 AAAA ATOM 1666 CA GLY À 209 21.148 12.461 59.400 1.00 37.12 AAAA ATOM 1666 CA GLY À 209 21.148 12.461 59.400 1.00 37.12 AAAA ATOM 1666 CA GLY À 209 21.481 12.461 59.400 1.00 37.12 AAAA ATOM 1666 CA GLY À 210 23.600 1.00 36.01 0.00 37.12 AAAA ATOM 1667 CA GLY À 210 23.600 1.00 36.01 0.00 37.12 AAAA ATOM 1667 CA GLY À 210 23.600 1.00 36.01 0.00 37.12 AAAA ATOM 1670 CA GLY À 210 23.600 1.00 36.01 0.00 37.12 AAAA ATOM 1670 CA GLY À 210 23.600 1.00 36.01 0.00 37.12 AAAA ATOM 1670 CA GLY À 210 23.600 1.00 36.01 0.00 37.12 AAAA ATOM 1670 CA GLY À 210 23.600 1.00 37.00 38.04 AAAA ATOM 1670 CA GLY À 210 23.600 1.00 36.01 0.00 37.02 AAAA ATOM 1670 CA GLY À 210 23.600 1.00 36.01 0.00 37.02 AAAA ATOM 1670 CA GLY À 210 23.600 1.00 37.03 AAAA ATOM 1670 CA GLY À 211 25.548 10.437 55.555 1.00 40.86 AAAA ATOM 1670 CA GLY À 211 25.548 10.437 55.555 1.00 40.86 AAAA ATOM 1670 CA GLY À 211 25.548 10.437 55.555 1.00 40.86 AAAA ATOM 1670 CA GLY À 211 25.548 10.437 55.555 1.00 40.80 AAAA ATOM 1670 CA GLY À 211 25.548 10.437 55.555 1.00 40.80 AAAA ATOM 1678 CA GLY À 211 25.548 10.437 55.555 1.00 40.80 AAAA ATOM 1670 CA GLY À 211 25.548 10.437 56.2					20 070	55.604	1.00 30.76	AAAA
ATOM 1652 C GLU À 207 18.879 17.491 80.910 1.00 31.57 AAAA ATOM 1653 O GLU À 207 19.475 18.275 16.272 18.257 AAAA ATOM 1655 CA LLE À 208 18.935 16.272 61.248 1.00 33.37 AAAA ATOM 1656 CB LLE À 208 18.709 15.317 62.408 1.00 33.65 AAAA ATOM 1657 CGZ LLE À 208 18.709 15.317 62.408 1.00 33.65 AAAA ATOM 1657 CGZ LLE À 208 17.623 16.365 64.794 1.00 33.91 AAAA ATOM 1658 CGI LLE À 208 17.623 16.365 64.794 1.00 37.00 AAAA ATOM 1659 CDI LLE À 208 22.506 14.829 63.265 1.00 34.00 AAAAA ATOM 1660 C LLE À 208 22.506 14.829 63.265 1.00 34.00 AAAAA ATOM 1661 C LLE À 208 22.506 14.829 63.265 1.00 34.64 AAAA ATOM 1662 N GLY À 209 22.164 12.671 65.000 13.64 AAAA ATOM 1663 C GLY À 209 22.164 12.671 65.000 1.00 37.78 AAAA ATOM 1666 N GLY À 209 22.164 12.671 65.000 1.00 37.78 AAAA ATOM 1666 N GLY À 209 22.164 12.671 65.000 1.00 37.78 AAAA ATOM 1666 N GLY À 209 22.164 12.671 65.000 1.00 37.78 AAAA ATOM 1667 C AG GLY À 209 22.164 12.101 65.000 1.00 37.78 AAAA ATOM 1667 N GLY À 209 22.164 12.101 65.000 1.00 37.78 AAAA ATOM 1667 C AG GLY À 209 22.1640 12.101 65.000 1.00 37.78 AAAA ATOM 1667 C AG GLY À 209 22.1640 12.01 10.000 17.78 AAAAA ATOM 1667 C AG GLY À 209 22.1640 12.01 10.000 17.78 AAAAA ATOM 1667 C AG GLY À 209 22.1640 12.01 10.000 17.78 AAAAA ATOM 1667 C AG GLY À 200 22.1640 12.000 10.000 37.78 AAAAA ATOM 1667 C AG GLY À 200 22.1640 12.000 12.3660 11.01 37.585 10.000 1.000 37.78 AAAAA ATOM 1667 C AG GLY À 210 23.660 11.01 37.585 10.000 1.000 37.78 AAAAA ATOM 1667 C AG GLY À 210 23.660 11.01 37.585 10.000 1.000 37.78 AAAAA ATOM 1679 C C GLU À 210 23.660 11.01 37.585 10.000 1.000 37.78 AAAAA ATOM 1679 C C GLU À 210 23.660 11.01 37.585 10.000 1.000 37.78 AAAAA ATOM 1679 C C GLU À 210 23.660 11.01 37.585 10.000 1.000 37.78 AAAAA ATOM 1679 C C GLU À 210 23.660 11.01 37.585 10.000 1.000 37.78 AAAAA ATOM 1679 C C GLU À 210 23.660 11.01 37.585 10.000 1.000 37.78 AAAAA ATOM 1679 C C GLU À 210 23.660 11.01 37.585 10.000 1.000 37.78 AAAAA ATOM 1679 C C GLU À 210 23.660 11.01 37.585 10.000 1.000 37.78 AAAAA ATOM 1679 C C GLU À 210 23.660 1	a_TOM	1651 OE	E2 GLU A 207					
19.477					17.433		1.00 32.51	
ATOM 1655 CA LE A 208 18.935 16.117 22.408 1.00 33.37 AAAA ATOM 1655 CA LE A 208 18.709 15.647 63.519 10.00 33.65 AAAA ATOM 1657 CG2 LE A 208 17.673 16.742 63.519 10.00 33.65 AAAA ATOM 1658 CG1 LE A 208 17.673 16.742 63.747 10.00 37.00 AAAA ATOM 1659 CG1 LE A 208 20.863 15.174 63.747 10.00 37.00 AAAA ATOM 1650 CT LE A 208 20.863 15.174 62.280 20.863 15.174 62.280 20.863 15.174 62.280 20.863 15.174 62.280 20.863 15.174 62.280 20.863 15.174 62.280 20.863 15.174 62.280 20.863 15.174 62.280 20.863 15.174 62.280 20.863 15.174 62.280 20.863 15.174 62.280 20.863 15.174 62.280 20.863 15.174 62.280 20.863 20.			GLU A 207		18.448	• • • •		
ATOM 1655 CB ILE À 208 19.674 16.111 92.243 17.00 33.65 AAAA ATOM 1657 CG2 ILE À 208 19.443 15.380 64.806 1.00 34.11 AAAA ATOM 1658 CG1 ILE À 208 19.443 15.380 64.806 1.00 34.11 AAAA ATOM 1659 CD1 ILE À 208 16.628 16.366 64.806 1.00 34.00 AAAA ATOM 1669 CD1 ILE À 208 16.628 16.366 64.806 1.00 34.00 AAAA ATOM 1661 O ILE À 208 21.506 14.829 64.294 1.00 34.00 AAAA ATOM 1662 N GLY À 209 21.171 14.828 16.622 16.00 34.40 AAAA ATOM 1663 CA GLY À 209 22.321 11.903 60.313 1.00 35.55 AAAA ATOM 1666 C GLY À 209 22.321 11.903 60.313 1.00 35.55 AAAA ATOM 1666 C GLY À 209 22.321 11.903 60.313 1.00 37.32 AAAA ATOM 1666 N GLY À 209 22.321 12.621 60.057 1.00 36.80 AAAA ATOM 1666 N GLY À 209 21.148 12.671 60.057 1.00 36.80 AAAA ATOM 1666 N GLY À 209 21.148 12.671 60.057 1.00 38.04 AAAA ATOM 1665 C GLY À 209 21.148 12.671 60.057 1.00 38.80 AAAA ATOM 1666 N GLY À 2100 21.356 10.621 59.315 1.00 38.04 AAAA ATOM 1665 C GLY À 2100 21.458 10.621 59.315 1.00 38.04 AAAA ATOM 1667 CA GLU À 210 23.456 10.621 59.315 1.00 38.04 AAAA ATOM 1667 CC GLU À 210 23.456 10.421 55.556 1.00 40.10 AAAA ATOM 1677 CC GLU À 210 22.3459 10.437 55.555 1.00 40.10 AAAA ATOM 1677 CC GLU À 210 22.356 10.437 55.555 1.00 40.10 AAAA ATOM 1677 CC GLU À 210 22.356 10.437 55.555 1.00 40.10 AAAA ATOM 1678 O GLU À 211 22.405 83.807 60.041 1.00 38.52 AAAA ATOM 1678 O GLU À 211 22.6848 8.030 62.70 1.00 38.09 AAAA ATOM 1678 O GLU À 211 22.6848 8.030 62.20 1.00 38.09 AAAA ATOM 1678 O GLU À 211 22.6848 8.030 62.20 1.00 38.09 AAAA ATOM 1678 O GLU À 211 22.6848 8.030 62.20 1.00 38.09 AAAA ATOM 1678 O GLU À 211 22.6848 8.030 62.70 1.00 38.02 AAAA ATOM 1678 O GLU À 211 22.6848 8.030 62.70 1.00 38.09 AAAA ATOM 1680 CA LYS À 212 27.386 8.095 60.766 1.00 38.02 AAAA ATOM 1680 CA LYS À 212 27.386 8.095 60.766 1.00 38.02 AAAA ATOM 1680 CA LYS À 212 27.386 8.096 60.770 1.00 38.02 AAAA ATOM 1680 CA LYS À 212 27.386 8.096 60.770 1.00 38.02 AAAA ATOM 1680 CA LYS À 212 27.386 8.096 60.770 1.00 38.02 AAAA ATOM 1680 CA LYS À 212 27.386 8.096 60.770 1.00 38.02 AAAA ATOM 1680 CA LYS À 212 22.							1.00 32.37	
ATOM 1655 CG ILE A 208 19, 443 15, 380 64, 361 100 34, 11 AARA ATOM 1659 CG ILE A 208 17, 673 16, 742 64, 794 100 37, 00 AARA ATOM 1659 CD ILE A 208 20, 863 15, 174 62, 82, 843 100 34, 00 AARA ATOM 1660 C ILE A 208 20, 863 15, 174 62, 82, 83, 83, 84, 84, 84, 84, 84, 84, 84, 84, 84, 84				19.674				
TOTO 1657 CC2 ILE A 208 19.443 15.7673 16.742 16.742 10.774 10.03 31.94 AARA ATOM 1658 CG1 ILE A 208 16.628 16.386 64.794 10.03 17.00 AARA ATOM 1650 C ILE A 208 21.505 14.829 62.280 1.00 34.00 AARA ATOM 1661 O ILE A 208 21.505 14.829 63.265 1.00 34.40 AARA ATOM 1662 N GIV A 209 22.121 13.903 66.512 10.03 4.64 AARA ATOM 1665 C GIV A 209 22.121 13.903 66.513 1.00 34.64 AARA ATOM 1665 C GIV A 209 22.121 13.903 66.513 1.00 37.32 AARA ATOM 1666 N GIV A 209 22.148 12.461 55.100 17.78 AARA ATOM 1666 N GIV A 209 22.148 12.461 55.100 17.78 AARA ATOM 1666 C GIV A 210 23.595 11.836 60.103 17.78 AARA ATOM 1667 CA GIU A 210 23.595 10.613 57.892 1.00 38.54 AARA ATOM 1667 CA GIU A 210 23.500 11.013 57.892 1.00 38.54 AARA ATOM 1667 CD GIU A 210 23.565 10.427 57.892 1.00 38.59 AARA ATOM 1670 CD GIU A 210 23.365 10.427 55.555 1.00 40.10 AARA ATOM 1671 CEI GIU A 210 23.365 10.427 55.555 1.00 40.86 AARA ATOM 1671 CEI GIU A 210 23.365 10.477 54.555 1.00 40.86 AARA ATOM 1673 C GIU A 210 23.365 10.477 54.555 1.00 40.86 AARA ATOM 1673 C GIU A 210 23.365 10.477 54.555 1.00 40.86 AARA ATOM 1673 C GIU A 210 23.365 10.477 54.555 1.00 40.86 AARA ATOM 1673 C GIU A 210 23.365 10.477 54.555 1.00 40.86 AARA ATOM 1675 N GIV A 211 24.685 8.557 60.270 10.03 8.02 AARA ATOM 1676 C GIU A 210 24.377 9.770 9.770 8.80 9.80 AARA ATOM 1676 C GIV A 211 25.146 7.677 60.770 1.00 38.02 AARA ATOM 1676 C GIV A 211 25.542 8.075 60.271 1.00 38.02 AARA ATOM 1676 C GIV A 211 24.687 8.075 60.271 1.00 38.02 AARA ATOM 1678 C GIV A 211 24.687 8.075 60.271 1.00 37.98 AARA ATOM 1678 C GIV A 211 24.687			TIF 2 208	18.709	15.647			
ATOM 1659 CGI ILE A 208			20 TIE 2 208	19.443	15.380	64.806	1.00 34.11	
ATOM 1659 CDI LIE A 208			32 ILE A 200			63.757	1.00 33.94	
ATOM 1650 C ILE A 208 20.863 15.174 62.280 1.00 34.40 AAAA ATOM 1661 O ILE A 208 21.506 14.829 63.265 1.00 34.40 AAAA ATOM 1662 N GLY A 209 21.506 14.829 63.265 1.00 34.40 AAAA ATOM 16662 N GLY A 209 22.321 13.903 60.913 1.00 35.55 AAAA ATOM 1666 C GLY A 209 22.321 1.99 11.836 60.100 1.00 37.32 AAAA ATOM 1665 O GLY A 209 22.164 12.671 60.057 1.00 36.80 AAAA ATOM 1665 O GLY A 209 21.148 12.461 59.400 1.00 37.32 AAAA ATOM 1666 K GLU A 210 23.256 10.621 59.315 1.00 38.04 AAAA ATOM 1667 CA GLU A 210 23.256 10.621 59.315 1.00 38.04 AAAA ATOM 1667 CG GLU A 210 23.260 11.013 57.892 1.00 38.54 AAAA ATOM 1669 CG GLU A 210 23.469 9.960 56.858 1.00 38.99 AAAAA ATOM 1670 CD GLU A 210 23.456 10.437 55.555 1.00 40.86 AAAA ATOM 1671 CD GLU A 210 22.3469 9.960 56.858 1.00 40.10 AAAAA ATOM 1672 CD GLU A 210 22.3196 10.476 55.555 1.00 40.86 AAAA ATOM 1671 CD GLU A 210 22.3196 10.476 55.555 1.00 40.86 AAAA ATOM 1672 CD GLU A 210 22.3196 10.476 55.555 1.00 40.86 AAAA ATOM 1673 C GLU A 210 22.379 (10.40 10.00 37.98 AAAA ATOM 1673 C GLU A 210 22.379 (10.40 10.00 37.98 AAAA ATOM 1673 C GLU A 210 22.379 (10.00 10.00 37.98 AAAA ATOM 1676 C GLU A 210 22.396 (10.40 10.00 37.98 AAAA ATOM 1677 C GLU A 210 22.397 (10.00 37.98 AAAA ATOM 1678 C GLU A 211 24.697 8.810 (10.00 37.98 AAAA ATOM 1677 C GLU A 211 24.697 8.810 (10.00 37.98 AAAA ATOM 1678 C GLU A 211 24.697 8.810 (10.00 37.98 AAAA ATOM 1679 N GLY A 211 25.516 7.654 60.770 1.00 38.09 AAAA ATOM 1679 N GLY A 211 25.542 8.075 62.164 1.00 38.25 AAAA ATOM 1679 N GLY A 211 25.542 8.075 62.164 1.00 38.25 AAAA ATOM 1679 N GLY A 211 25.542 8.075 62.164 1.00 38.25 AAAA ATOM 1679 N GLY A 211 24.697 8.810 60.770 1.00 38.09 AAAA ATOM 1679 N GLY A 211 24.697 8.810 60.770 1.00 38.00 AAAA ATOM 1680 C GLY A 211 24.697 8.810 60.770 1.00 38.00 AAAA ATOM 1681 CB LIFS A 212 27.075 8.899 63.743 1.00 37.98 AAAA ATOM 1682 C GLY A 211 24.697 8.809 96.3743 1.00 37.98 AAAA ATOM 1680 C GLY A 211 24.697 8.809 96.3743 1.00 38.90 AAAA ATOM 1680 C GLY A 212 22.801 1.00 38.90 AAAA ATOM 1680 C GLY A 212 22.801 1.00 38.	MOTA					64.794	1.00 37.00	
ATOM 1660 C ILE À 2008 21.506 14 829 63.265 1.00 34.40 AAAA ATOM 1661 O ILE À 2008 21.506 14 829 63.265 1.00 34.64 AAAA ATOM 1662 N GLY À 2009 22.321 13.903 60.913 1.00 36.80 AAAA ATOM 1666 N GLY À 2009 22.164 12.671 60.057 1.00 36.80 AAAA ATOM 1666 N GLY À 2009 21.188 12.461 59.400 1.00 37.78 AAAA ATOM 1666 N GLU À 210 23.266 10.621 59.315 1.00 38.54 AAAA ATOM 1666 N GLU À 210 23.266 10.621 59.315 1.00 38.54 AAAA ATOM 1666 N GLU À 210 23.266 10.621 59.315 1.00 38.54 AAAA ATOM 1668 CB GLU À 210 23.266 10.621 59.315 1.00 38.54 AAAA ATOM 1669 CG GLU À 210 23.469 9.960 56.858 1.00 38.99 AAAA ATOM 1670 CD GLU À 210 23.360 11.013 57.892 1.00 40.10 AAAA ATOM 1670 CD GLU À 210 23.360 10.621 59.315 1.00 40.41 AAAA ATOM 1670 CD GLU À 210 23.360 10.675 74.619 1.00 40.41 AAAA ATOM 1673 C GLU À 210 23.366 10.675 74.619 1.00 40.41 AAAA ATOM 1673 C GLU À 210 23.366 10.675 74.619 1.00 40.41 AAAA ATOM 1673 C GLU À 210 23.396 10.675 74.619 1.00 40.41 AAAA ATOM 1675 N GLY À 211 24.085 80.00 40.041 1.00 38.52 AAAAA ATOM 1675 N GLY À 211 24.085 80.00 40.041 1.00 38.52 AAAAA ATOM 1676 CA GLY À 211 24.085 80.00 40.041 1.00 38.52 AAAAA ATOM 1676 CA GLY À 211 24.687 8.443 52.977 1.00 38.09 AAAA ATOM 1676 CA GLY À 211 25.542 80.00 40.01 1.00 38.52 AAAAA ATOM 1678 O GLY À 211 25.468 8.00 67.70 1.00 38.02 AAAAA ATOM 1678 O GLY À 212 29.01 25.486 8.396 62.344 1.00 38.26 AAAAA ATOM 1680 CA LYS À 212 29.416 6.810 63.743 1.00 38.02 AAAAA ATOM 1680 CA LYS À 212 29.416 6.810 63.685 1.00 38.02 AAAAA ATOM 1680 CA LYS À 212 29.416 6.810 63.685 1.00 38.60 AAAAA ATOM 1680 CA LYS À 212 29.416 6.810 63.685 1.00 38.02 AAAAA ATOM 1680 CA LYS À 212 29.416 6.810 63.685 1.00 38.86 AAAA ATOM 1680 CA LYS À 212 29.416 6.810 63.685 1.00 38.90 AAAA ATOM 1680 CA LYS À 212 29.416 6.810 63.685 1.00 38.90 AAAAA ATOM 1680 CA LYS À 212 29.01 6.810 63.685 1.00 38.90 AAAAA ATOM 1680 CA LYS À 212 29.01 6.810 63.685 1.00 38.90 AAAAA ATOM 1680 CA LYS À 212 29.01 6.810 63.685 1.00 38.90 AAAAA ATOM 1680 CA LYS À 212 29.01 6.810 63.685 1.00 38.90 AAAAA ATOM 1680 CA LYS À 21	ATOM					62.280	1.00 34.00	
ATOM 1662 N GLY À 209 22.321 13 903 60.931 1.00 34.64 AAAA ATOM 1663 CA GLY À 209 22.321 13 903 60.931 1.00 35.55 AAAA ATOM 1666 N GLY À 209 22.164 12.671 60.057 1.00 36.80 AAAA ATOM 1666 N GLY À 209 21.148 12.461 59.400 1.00 37.32 AAAA ATOM 1665 N GLY À 209 21.148 12.461 59.400 1.00 37.32 AAAA ATOM 1667 CA GLU À 210 23.256 10.621 59.315 1.00 38.04 AAAA ATOM 1667 CA GLU À 210 23.256 10.621 59.315 1.00 38.04 AAAA ATOM 1667 CA GLU À 210 23.600 11.013 57.892 1.00 38.94 AAAA ATOM 1669 CG GLU À 210 23.469 9.960 56.858 1.00 40.10 AAAA ATOM 1670 CD GLU À 210 23.469 9.960 56.858 1.00 40.10 AAAA ATOM 1670 CD GLU À 210 22.319 11.836 60.100 1.00 37.38 AAAA ATOM 1670 CD GLU À 210 22.3196 10.627 55.580 1.00 40.86 AAAA ATOM 1670 CD GLU À 210 22.3196 10.767 54.619 1.00 40.10 AAAA ATOM 1671 CD GLU À 210 25.365 10.437 55.555 1.00 40.86 AAAA ATOM 1672 CD GLU À 210 25.365 10.767 54.619 1.00 40.41 AAAA ATOM 1673 C GLU À 210 25.398 10.244 60.041 1.00 38.52 AAAA ATOM 1673 C GLU À 210 25.398 10.244 60.041 1.00 38.52 AAAA ATOM 1676 C GLU À 211 25.116 7.654 60.700 1.00 38.09 AAAA ATOM 1677 C GLY À 211 24.085 8.517 60.221 1.00 38.09 AAAA ATOM 1677 C GLY À 211 24.085 8.517 60.221 1.00 38.09 AAAA ATOM 1677 C GLY À 211 24.085 8.517 60.221 1.00 38.09 AAAA ATOM 1677 C GLY À 212 22.394 8.000 62.434 1.00 38.99 AAAA ATOM 1677 C GLY À 212 22.394 8.000 62.434 1.00 38.99 AAAA ATOM 1677 C GLY À 212 22.348 8.000 62.434 1.00 38.99 AAAA ATOM 1677 C GLY À 212 22.348 8.000 62.434 1.00 38.99 AAAA ATOM 1677 C GLY À 212 22.348 8.000 62.434 1.00 38.99 AAAA ATOM 1677 C GLY À 212 22.344 8.00 63.743 1.00 37.56 AAAAA ATOM 1681 CB LYS À 212 22.914 8.209 63.746 1.00 37.56 AAAAA ATOM 1680 CB LYS À 212 22.914 8.209 63.746 1.00 37.56 AAAAA ATOM 1681 CB LYS À 212 22.914 8.209 63.746 1.00 37.95 AAAA ATOM 1680 CB LYS À 212 22.914 8.209 63.746 1.00 37.95 AAAA ATOM 1680 CB LYS À 212 22.914 8.209 63.746 1.00 37.95 AAAA ATOM 1680 CB LYS À 212 22.914 8.209 63.746 1.00 37.95 AAAA ATOM 1680 CB LYS À 212 22.914 8.209 63.746 1.00 37.95 AAAA ATOM 1680 CB LYS À 212 22.914 8.209 6	ATOM		ILE A 208				1.00 34.40	AAAA
ATOM 1662 N GLY À 209	ATOM		ILE A 208				1.00 34.64	AAAA
ATOM 1664 C GLY A 209		1662 N	GLY A 209				1.00.35.55	AAAA
ATOM 1665 O GIV À 209 21.148 12.461 59.400 1.00 37.32 AAAA ATOM 1666 N GIU À 210 23.159 11.836 60.100 1.00 37.32 AAAA ATOM 1667 CA GIU À 210 23.256 10.621 59.315 1.00 38.04 AAAA ATOM 1668 CB GIU À 210 23.260 11.013 57.892 1.00 38.04 AAAA ATOM 1669 CG GIU À 210 23.469 9.960 56.858 1.00 38.99 AAAA ATOM 1670 CD GIU À 210 24.118 10.412 55.580 1.00 40.86 AAAAA ATOM 1671 OEI GIU À 210 25.365 10.437 55.555 1.00 40.86 AAAAA ATOM 1671 OEI GIU À 210 25.365 10.437 55.555 1.00 40.86 AAAAA ATOM 1672 OEZ GIU À 210 25.365 10.437 55.555 1.00 40.86 AAAAA ATOM 1673 C GIU À 210 24.118 10.767 54.619 1.00 40.14 AAAAA ATOM 1673 C GIU À 210 24.137 9.770 59.894 1.00 37.98 AAAA ATOM 1673 C GIU À 211 24.085 8.517 60.220 1.00 38.52 AAAAA ATOM 1676 CA GIV À 211 25.116 7.654 60.270 1.00 38.02 AAAAA ATOM 1676 CA GIV À 211 25.542 8.075 62.164 1.00 38.22 AAAA ATOM 1676 CA GIV À 211 25.542 8.075 62.164 1.00 38.26 AAAAA ATOM 1678 N LYS À 212 26.888 8.030 62.434 1.00 38.26 AAAAA ATOM 1679 N LYS À 212 26.888 8.030 62.434 1.00 37.98 AAAA ATOM 1679 N LYS À 212 27.396 8.399 63.766 1.00 40.93 AAAA ATOM 1680 CA LYS À 212 29.416 6.810 63.385 1.00 40.93 AAAA ATOM 1680 CA LYS À 212 29.416 6.810 63.385 1.00 40.93 AAAA ATOM 1680 CA LYS À 212 29.416 6.810 63.385 1.00 40.93 AAAA ATOM 1688 N GLY À 212 29.915 6.436 64.405 1.00 37.08 AAAA ATOM 1688 N GLY À 212 29.251 4.318 63.891 1.00 42.80 AAAA ATOM 1688 C GLYS À 212 29.251 4.318 63.891 1.00 42.80 AAAA ATOM 1688 C GLYS À 212 29.251 4.318 63.891 1.00 37.08 AAAA ATOM 1689 C GLYS À 212 29.251 4.318 63.891 1.00 42.80 AAAA ATOM 1689 C GLYS À 212 29.251 4.318 63.891 1.00 42.80 AAAA ATOM 1689 C GLYS À 212 29.901 5.746 64.405 1.00 37.08 AAAA ATOM 1689 C GLYS À 212 29.901 5.746 64.405 1.00 37.08 AAAA ATOM 1689 C GLYS À 212 29.901 5.746 64.405 1.00 37.08 AAAA ATOM 1689 C GLYS À 212 29.901 5.746 64.405 1.00 37.08 AAAA ATOM 1689 C GLYS À 212 29.901 5.746 64.405 1.00 37.08 AAAA ATOM 1689 C GLYS À 212 29.901 5.746 64.405 1.00 37.08 AAAA ATOM 1690 C GLYS À 212 29.901 5.746 64.405 1.00 37.08 AAAA ATOM 1690 C GLYS À 212 22.243			A GLY A 209				1 00 36.80	AAAA
ATOM 1665 O GLV A 209 ATOM 1666 N GLU A 210 ATOM 1667 CA GLU A 210 ATOM 1667 CA GLU A 210 ATOM 1668 CB GLU A 210 ATOM 1668 CB GLU A 210 ATOM 1670 CD GLU A 210 ATOM 1671 OEL GLU A 210 ATOM 1671 OEL GLU A 210 ATOM 1672 OEL GLU A 210 ATOM 1673 C GLU A 210 ATOM 1673 C GLU A 210 ATOM 1674 O GLU A 210 ATOM 1675 N GLV A 211 ATOM 1675 CA GLU A 210 ATOM 1676 CA GLU A 210 ATOM 1677 C GLU A 210 ATOM 1678 O GLU A 211 ATOM 1676 CA GLV A 211 ATOM 1677 C GLV A 211 ATOM 1678 O GLV A 211 ATOM 1679 N LYS A 212 ATOM 1679 N LYS A 212 ATOM 1680 CB LYS A 212 ATOM 1680 CB LYS A 212 ATOM 1680 CB LYS A 212 ATOM 1681 CB LYS A 212 ATOM 1682 CG LYS A 212 ATOM 1683 CD LYS A 212 ATOM 1683 CD LYS A 212 ATOM 1684 CB LYS A 212 ATOM 1685 NZ LYS A 212 ATOM 1685 C LYS A 212 ATOM 1686 C LYS A 212 ATOM 1680 C B LYS A 213 ATOM 1680 C B LYS A 214 ATOM 1680 C B LYS A 215 ATOM 1680 C B LYS A 216 ATOM 1680 C B LYS A 217 ATOM 1680 C B LYS A 218 ATOM 1680 C B LYS A		1664 C	GLY A 209				1 00 37 32	AAAA
ATOM 1666 N GLU A 210 23.199 11.836 80.100 1.00 38.04 AAAA ATOM 1667 CA GLU A 210 23.256 10.621 59.315 1.00 38.04 AAAA ATOM 1668 CB GLU A 210 23.600 11.013 57.892 1.00 38.54 AAAA ATOM 1668 CB GLU A 210 23.600 11.013 57.892 1.00 38.54 AAAA ATOM 1670 CD GLU A 210 23.600 10.412 55.580 1.00 40.10 AAAA ATOM 1671 OEI GLU A 210 25.365 10.437 55.555 1.00 40.86 AAAA ATOM 1671 OEI GLU A 210 25.365 10.437 55.555 1.00 40.86 AAAA ATOM 1672 OEZ GLU A 210 23.196 10.767 54.619 1.00 40.41 AAAA ATOM 1673 C GLU A 210 24.377 9.770 59.894 1.00 37.98 AAAA ATOM 1674 O GLU A 210 24.377 9.770 59.894 1.00 37.98 AAAA ATOM 1675 N GLY A 211 24.885 8.00 60.41 1.00 38.52 AAAAA ATOM 1676 CA GLY A 211 25.542 8.075 62.200 1.00 38.02 AAAAA ATOM 1676 CA GLY A 211 25.542 8.075 62.2164 1.00 38.26 AAAA ATOM 1676 CA GLY A 211 25.542 8.075 62.164 1.00 38.26 AAAA ATOM 1678 N GLY A 211 24.885 8.005 62.484 1.00 37.82 AAAA ATOM 1678 N GLY A 211 22.542 8.075 62.184 1.00 37.82 AAAA ATOM 1678 N GLY A 211 22.542 8.075 62.184 1.00 37.82 AAAA ATOM 1680 CA LYS A 212 27.396 8.399 63.743 1.00 37.82 AAAA ATOM 1680 CA LYS A 212 27.396 8.399 63.743 1.00 37.82 AAAA ATOM 1680 CA LYS A 212 27.396 8.399 63.743 1.00 37.82 AAAA ATOM 1681 CB LYS A 212 29.010 5.746 64.005 1.00 42.04 AAAA ATOM 1682 CD LYS A 212 29.010 5.746 64.005 1.00 42.04 AAAA ATOM 1688 N GLY A 212 29.010 5.746 64.005 1.00 42.04 AAAA ATOM 1688 N GLY A 212 29.010 5.746 64.005 1.00 42.04 AAAA ATOM 1688 N GLY A 212 29.010 5.746 64.005 1.00 42.04 AAAA ATOM 1689 CA GLY A 213 26.854 10.036 63.305 1.00 40.93 AAAA ATOM 1689 CA GLY A 213 26.854 10.036 63.707 1.00 33.29 AAAA ATOM 1689 CA GLY A 213 26.854 10.036 63.707 1.00 33.29 AAAA ATOM 1689 CA GLY A 213 26.854 10.036 63.707 1.00 33.29 AAAA ATOM 1690 C GLY A 213 26.854 10.036 63.707 1.00 33.29 AAAA ATOM 1699 C GLY A 213 24.861 13.611 63.666 1.00 33.29 AAAA ATOM 1690 C GLY A 213 24.861 13.611 63.666 1.00 33.29 AAAA ATOM 1690 C GLY A 213 24.861 13.611 63.666 1.00 33.29 AAAA ATOM 1690 C GLY A 213 24.886 1.396 63.707 1.00 30.47 AAAA ATOM 1690 C GLY A 213 24.886 1.396			GLY A 209				1 00 37 78	
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ATOM 1669 CG GLU A 210 23.600 11.013 55.55 1.00 40.10 AAAA ATOM 1670 CD GLU A 210 24.118 10.412 55.55 1.00 40.10 AAAA ATOM 1671 OE1 GLU A 210 25.365 10.437 55.55 1.00 40.86 AAAA ATOM 1671 OE1 GLU A 210 25.365 10.047 55.55 1.00 40.86 AAAA ATOM 1672 OE2 GLU A 210 25.396 10.767 55.6619 1.00 40.41 AAAA ATOM 1673 C GLU A 210 25.498 10.244 60.041 1.00 38.52 AAAA ATOM 1674 O GLU A 210 24.077 9.770 59.894 1.00 37.98 AAAA ATOM 1675 N GLU A 211 24.085 8.517 60.220 1.00 38.02 AAAA ATOM 1676 CA GLY A 211 25.542 8.075 62.164 1.00 38.52 AAAA ATOM 1676 CA GLY A 211 25.542 8.075 62.164 1.00 38.26 AAAA ATOM 1678 O GLY A 211 25.542 8.075 62.164 1.00 38.26 AAAA ATOM 1678 O GLY A 211 24.697 8.443 62.977 1.00 37.82 AAAA ATOM 1678 O GLY A 212 27.396 8.399 63.763 1.00 37.55 AAAA ATOM 1680 CA LYS A 212 27.396 8.399 63.763 1.00 37.55 AAAA ATOM 1680 CA LYS A 212 27.396 8.399 63.763 1.00 37.55 AAAA ATOM 1680 CA LYS A 212 28.921 8.209 63.765 1.00 38.80 AAAA ATOM 1680 CA LYS A 212 29.416 6.810 63.385 1.00 40.93 AAAA ATOM 1683 CD LYS A 212 29.416 6.810 63.385 1.00 40.93 AAAA ATOM 1683 CD LYS A 212 29.514 6.18 6.30 63.385 1.00 40.93 AAAA ATOM 1685 NZ LYS A 212 29.514 6.18 6.30 63.385 1.00 40.93 AAAA ATOM 1685 NZ LYS A 212 29.514 6.18 6.30 63.385 1.00 40.93 AAAA ATOM 1685 NZ LYS A 212 29.001 5.746 64.405 1.00 38.694 AAAA ATOM 1687 O GLYS A 212 29.016 5.746 64.405 1.00 38.94 AAAA ATOM 1689 CA GLYS A 212 29.016 5.746 64.405 1.00 33.09 AAAA ATOM 1689 CA GLYS A 212 29.018 6.30 63.385 1.00 40.93 AAAA ATOM 1689 CA GLYS A 212 29.016 5.746 64.405 1.00 33.03 ATOM 1689 CA GLYS A 212 29.016 5.746 64.405 1.00 33.03 AAAA ATOM 1689 CA LYS A 212 29.016 6.30 63.302 1.00 35.41 AAAA ATOM 1690 C GLYS A 213 26.552 12.054 63.170 1.00 34.24 AAAA ATOM 1699 C GLYS A 213 26.552 12.054 63.170 1.00 34.24 AAAA ATOM 1699 C GLYS A 213 26.552 12.054 63.170 1.00 30.47 AAAA ATOM 1699 C GLYS A 214 22.883 11.710 63.794 1.00 30.47 AAAA ATOM 1698 CZ LYS A 214 22.811 10.396 66.551 1.00 20.47 AAAA ATOM 1698 NZ LYS A 214 22.711 10.396 66.551 1.00 20.47 AAAA ATOM 1700 C GLYS A 214 2			A GLU A 210				1.00 30.04	
ATOM 1669 CG CLU A 210 23.469 9.960 36.938 1.00 40.10 AAAA ATOM 1670 CD CLU A 210 25.365 10.437 55.555 1.00 40.86 AAAA ATOM 1671 OEI GLU A 210 25.365 10.437 55.555 1.00 40.86 AAAA ATOM 1672 OE2 GLU A 210 24.377 9.770 59.894 1.00 37.98 AAAA ATOM 1673 C GLU A 210 24.377 9.770 59.894 1.00 37.98 AAAA ATOM 1675 N GLY A 211 24.085 8.517 60.220 1.00 38.02 AAAA ATOM 1675 N GLY A 211 25.116 7.654 60.270 1.00 38.09 AAAA ATOM 1676 CA GLY A 211 25.542 8.075 62.164 1.00 38.26 AAAA ATOM 1677 C GLY A 211 25.542 8.075 62.164 1.00 38.26 AAAA ATOM 1678 N LYS A 212 26.888 8.035 62.434 1.00 38.20 AAAA ATOM 1678 N LYS A 212 27.396 8.399 63.764 1.00 37.82 AAAA ATOM 1680 CA LYS A 212 29.416 6.800 63.385 1.00 40.93 AAAA ATOM 1681 CB LYS A 212 29.416 6.800 63.385 1.00 40.93 AAAA ATOM 1680 CB LYS A 212 29.416 6.800 63.385 1.00 40.93 AAAA ATOM 1680 CB LYS A 212 29.91 8.000 53.766 1.00 38.86 AAAA ATOM 1684 CB LYS A 212 29.915 4.318 63.891 1.00 42.04 AAAA ATOM 1686 C LYS A 212 29.251 4.318 63.891 1.00 42.04 AAAA ATOM 1686 C LYS A 212 29.251 4.318 63.891 1.00 42.04 AAAA ATOM 1686 C LYS A 212 27.093 9.859 64.054 1.00 37.08 AAAA ATOM 1686 C LYS A 212 27.093 9.859 64.054 1.00 37.08 AAAA ATOM 1686 C LYS A 212 27.093 9.859 64.054 1.00 37.08 AAAA ATOM 1686 C LYS A 212 27.075 10.269 65.218 1.00 42.32 AAAA ATOM 1689 C LYS A 212 27.075 10.269 65.218 1.00 30.694 AAAA ATOM 1689 C LYS A 212 27.075 10.269 65.218 1.00 30.47 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.666 1.00 33.29 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.666 1.00 33.29 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.666 1.00 33.29 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.666 1.00 33.29 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.666 1.00 30.35 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.666 1.00 30.47 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.666 1.00 30.47 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.794 1.00 30.19 AAAA ATOM 1697 C LYS A 214 22.883 11.710 63.794 1.00 30.13 AAAA ATOM 1697 C LYS A 214 22.2883 11.710 66.575 1.00 29.75 AAAAA ATOM 1700 C LYS A 214 22.2883 11.710 66.575 1			B GLU A 210	23.600			1.00 30.34	
ATOM 1670 CD GLU A 210				23.469			1.00 38.99	
ATOM 1671 OEJ GLU A 210 25.365 10.437 55.555 1.00 40.86 AAAA ATOM 1672 OEZ GLU A 210 23.396 10.767 54.619 1.00 40.41 AAAA ATOM 1673 C GLU A 210 24.377 9.770 55.655 1.00 37.98 AAAA ATOM 1674 O GLU A 210 25.498 10.24 60.041 1.00 38.52 AAAA ATOM 1675 N GLY A 211 24.085 8.517 60.220 1.00 38.02 AAAA ATOM 1676 CA GLY A 211 25.116 7.654 60.220 1.00 38.02 AAAA ATOM 1677 C GLY A 211 25.542 8.075 62.164 1.00 38.26 AAAA ATOM 1677 C GLY A 211 25.542 8.075 62.164 1.00 38.26 AAAA ATOM 1678 O GLY A 211 24.697 8.443 52.977 1.00 37.82 AAAA ATOM 1678 N LYS A 212 26.848 8.030 62.434 1.00 38.20 AAAA ATOM 1680 CA LYS A 212 27.396 8.399 63.763 1.00 37.56 AAAA ATOM 1680 CA LYS A 212 29.416 6.810 63.385 1.00 40.93 AAAA ATOM 1682 CG LYS A 212 29.416 6.810 63.385 1.00 40.93 AAAA ATOM 1684 CE LYS A 212 29.001 5.746 64.405 1.00 42.04 AAAA ATOM 1686 C LYS A 212 29.001 5.746 64.005 1.00 42.04 AAAA ATOM 1686 C LYS A 212 29.001 5.746 64.005 1.00 42.04 AAAA ATOM 1686 C LYS A 212 27.075 10.269 65.218 1.00 42.32 AAAA ATOM 1686 C LYS A 212 27.075 10.269 65.218 1.00 42.32 AAAA ATOM 1689 CA GLY A 213 26.592 12.054 63.170 1.00 38.24 AAAA ATOM 1689 CA GLY A 213 26.592 12.054 63.170 1.00 34.24 AAAA ATOM 1699 C GLY A 213 26.592 12.054 63.170 1.00 34.24 AAAA ATOM 1699 C GLY A 213 26.592 12.054 63.170 1.00 34.24 AAAA ATOM 1699 C GLY A 213 26.592 12.054 63.170 1.00 33.27 AAAA ATOM 1699 C GLY A 213 24.861 13.611 63.666 1.00 33.27 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.794 1.00 30.47 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.696 1.00 33.27 AAAA ATOM 1699 C LYS A 214 22.2883 11.710 63.696 1.00 33.27 AAAA ATOM 1699 C LYS A 214 22.2883 11.710 63.696 1.00 33.27 AAAA ATOM 1699 C LYS A 214 22.2883 11.710 63.794 1.00 30.47 AAAA ATOM 1699 C LYS A 214 22.2883 11.710 63.696 1.00 33.27 AAAA ATOM 1699 C LYS A 214 22.2883 11.710 63.696 1.00 30.45 AAAA ATOM 1697 C LYS A 214 22.2883 11.710 63.794 1.00 30.47 AAAA ATOM 1697 C LYS A 214 22.2883 11.710 63.794 1.00 30.19 AAAA ATOM 1697 C LYS A 214 22.2883 11.710 63.794 1.00 30.19 AAAA ATOM 1709 C LYS A 214 22.2883 11.71			D CIII 2 210	24.118	10.412			
ATOM 1672 OE2 GLU A 210 ATOM 1673 C GLU A 210 ATOM 1674 O GLU A 210 ATOM 1675 N GLY A 211 ATOM 1676 C GLY A 211 ATOM 1676 C GLY A 211 ATOM 1676 C GLY A 211 ATOM 1677 C GLY A 211 ATOM 1678 O GLY A 211 ATOM 1679 N LYS A 212 ATOM 1679 N LYS A 212 ATOM 1679 N LYS A 212 ATOM 1680 CA LYS A 212 ATOM 1680 CA LYS A 212 ATOM 1681 CB LYS A 212 ATOM 1681 CB LYS A 212 ATOM 1683 CD LYS A 212 ATOM 1683 CD LYS A 212 ATOM 1686 C LYS A 212 ATOM 1685 N LYS A 212 ATOM 1685 N GLY A 213 ATOM 1685 C LYS A 212 ATOM 1686 C LYS A 212 ATOM 1686 C LYS A 212 ATOM 1687 O LYS A 212 ATOM 1688 N GLY A 213 ATOM 1689 C LYS A 213 ATOM 1689 C LYS A 214 ATOM 1689 C LYS A 214 ATOM 1689 C LYS A 214 ATOM 1689 C LYS A 212 ATOM 1680 C LYS A 214 ATOM 1680 C D LYS A 215 ATOM 1680 C D LYS A 216 ATOM 1680 C D LYS A 217 ATOM 1680 C D LYS A 218 ATOM 1680 C D LYS A 218 ATOM 1680 C D LYS A 219 ATOM 1680 C D LYS A 212 ATOM 1680 C D LYS A 213 ATOM 1680 C D LYS A 214 ATOM 1680 C D LYS A			E1 CIU > 210		10.437	55.555		
ATOM 1673 C GLU À 210 24.377 9.770 59.894 1.00 37.98 AAAA ATOM 1674 O GLU À 210 25.498 10.244 60.041 1.00 38.52 AAAA ATOM 1675 N GLY À 211 24.085 8.517 60.220 1.00 38.09 AAAA ATOM 1676 CA GLY À 211 25.116 7.654 60.770 1.00 38.09 AAAA ATOM 1677 C GLY À 211 24.697 8.443 62.977 1.00 37.82 AAAA ATOM 1678 O GLY À 211 24.697 8.443 62.977 1.00 37.82 AAAA ATOM 1679 N LYS À 212 27.396 8.399 63.743 1.00 37.56 AAAA ATOM 1680 CA LYS À 212 27.396 8.399 63.743 1.00 37.56 AAAA ATOM 1680 CA LYS À 212 29.416 6.810 63.385 1.00 42.04 AAAA ATOM 1681 CB LYS À 212 29.416 6.810 63.385 1.00 42.04 AAAA ATOM 1682 CG LYS À 212 29.416 6.810 63.385 1.00 42.04 AAAA ATOM 1684 CE LYS À 212 29.001 5.746 64.405 1.00 42.04 AAAA ATOM 1685 NZ LYS À 212 29.015 5.746 64.405 1.00 42.04 AAAA ATOM 1686 C LYS À 212 29.016 5.746 64.405 1.00 42.04 AAAA ATOM 1687 O LYS À 212 27.075 10.269 65.218 1.00 37.08 AAAA ATOM 1688 N GLY À 213 26.854 10.636 63.002 1.00 37.08 AAAA ATOM 1689 CA GLY À 213 26.854 10.636 63.002 1.00 37.08 AAAA ATOM 1689 CA GLY À 213 25.163 12.438 63.470 1.00 37.08 AAAA ATOM 1689 CA GLY À 213 26.854 10.636 63.002 1.00 37.08 AAAA ATOM 1689 CA GLY À 213 26.854 10.636 63.002 1.00 37.08 AAAA ATOM 1689 CA GLY À 213 26.854 10.636 63.002 1.00 37.08 AAAA ATOM 1689 CA GLY À 213 26.854 10.636 63.002 1.00 37.08 AAAA ATOM 1699 C GLY À 213 26.854 10.636 63.002 1.00 33.29 AAAA ATOM 1691 O GLY À 213 22.11 10.396 63.737 1.00 30.47 AAAA ATOM 1692 C GLY À 213 22.11 10.396 63.737 1.00 30.47 AAAA ATOM 1694 C B LYS À 214 22.883 11.710 63.7894 1.00 30.47 AAAA ATOM 1695 C G LYS À 214 22.883 11.700 63.794 1.00 30.47 AAAA ATOM 1697 C E LYS À 214 22.11 10.396 63.737 1.00 30.47 AAAA ATOM 1698 C G LYS À 214 22.11 10.396 63.737 1.00 30.47 AAAA ATOM 1699 C LYS À 214 22.21 1.00 39.95 54 AAAA ATOM 1699 C LYS À 214 22.21 1.00 39.95 54 AAAA ATOM 1690 C GY À 215 22.22 1.00 30.93 3.29 AAAA ATOM 1690 C GY À 215 22.24 88.13 1.00 30.93 3.29 AAAA ATOM 1698 CA C LYS À 214 22.31 3.500 65.192 1.00 29.95 AAAA ATOM 1699 C LYS À 214 22.41 31.500 66.551 1.00 29.95 AAAA ATOM 1700 C C GY			E1 GLU A 210		10.767		1.00 40.41	
ATOM 1674 O GLU À 210 25.498 10.244 60.041 1.00 38.52 AAAA ATOM 1675 N GLY À 211 24.085 8.517 60.220 1.00 38.02 AAAA ATOM 1676 C GLY À 211 25.542 8.075 62.164 1.00 38.26 AAAA ATOM 1677 C GLY À 211 25.542 8.075 62.164 1.00 38.26 AAAA ATOM 1679 N LYS À 212 26.848 8.030 62.434 1.00 38.26 AAAA ATOM 1679 N LYS À 212 27.396 8.399 63.766 1.00 37.56 AAAA ATOM 1680 CA LYS À 212 28.921 8.209 63.766 1.00 38.02 AAAA ATOM 1681 CB LYS À 212 29.416 6.810 63.385 1.00 40.93 AAAA ATOM 1683 CD LYS À 212 29.416 6.810 63.385 1.00 40.93 AAAA ATOM 1683 CD LYS À 212 29.416 6.810 63.385 1.00 40.93 AAAA ATOM 1684 CE LYS À 212 29.251 4.318 63.891 1.00 42.04 AAAA ATOM 1686 C LYS À 212 29.251 4.318 63.891 1.00 42.04 AAAA ATOM 1686 C LYS À 212 29.251 4.318 63.891 1.00 42.04 AAAA ATOM 1686 C LYS À 212 27.093 9.859 64.054 1.00 37.08 AAAA ATOM 1686 C LYS À 212 27.093 9.859 64.054 1.00 37.08 AAAA ATOM 1686 C LYS À 212 27.093 9.859 64.054 1.00 37.08 AAAA ATOM 1688 N GLY À 213 26.592 12.054 63.100 1.00 35.41 AAAA ATOM 1689 CA GLY À 213 26.592 12.054 63.100 1.00 33.27 AAAA ATOM 1689 CA GLY À 213 26.592 12.054 63.170 1.00 34.24 AAAA ATOM 1690 C GLY À 213 25.163 12.438 63.002 1.00 33.27 AAAA ATOM 1690 C GLY À 213 25.163 12.438 63.070 1.00 33.27 AAAA ATOM 1691 O GLY À 213 25.163 12.486 13.611 63.666 1.00 33.29 AAAA ATOM 1694 CB LYS À 214 22.811 10.396 63.734 1.00 30.45 AAAA ATOM 1695 CB LYS À 214 22.811 10.396 63.737 1.00 30.45 AAAA ATOM 1699 C LYS À 214 22.811 10.396 63.737 1.00 30.45 AAAA ATOM 1699 C LYS À 214 22.811 10.396 63.737 1.00 30.45 AAAA ATOM 1699 C LYS À 214 22.811 10.396 63.737 1.00 30.45 AAAA ATOM 1699 C LYS À 214 22.811 10.396 63.737 1.00 30.45 AAAA ATOM 1690 C LYS À 214 22.811 10.396 63.737 1.00 30.35 AAAA ATOM 1697 CE LYS À 214 22.813 11.710 63.794 1.00 30.47 AAAA ATOM 1699 C LYS À 214 22.813 13.818 61.671 1.00 31.35 AAAA ATOM 1700 C GLY À 215 22.243 13.890 65.512 1.00 29.95 AAAAA ATOM 1700 C GLY À 215 22.243 13.890 65.512 1.00 30.19 AAAA ATOM 1700 C GLY À 215 22.243 13.890 65.512 1.00 29.95 AAAAA ATOM 1700 C GLY À 215 22.243 13.890					9.770	59.894	1.00 37.98	
ATOM 1675 N GLY À 211 24.085 8.517 60.220 1.00 38.09 AAAA ATOM 1676 CA GLY À 211 25.116 7.654 60.770 1.00 38.09 AAAA ATOM 1677 C GLY A 211 25.542 8.075 62.164 1.00 38.26 AAAA ATOM 1677 C GLY A 211 24.697 8.443 62.977 1.00 37.82 AAAA ATOM 1679 N LYS A 212 27.396 8.399 63.743 1.00 37.56 AAAA ATOM 1680 CA LYS A 212 27.396 8.399 63.743 1.00 37.56 AAAA ATOM 1681 CB LYS A 212 28.921 8.209 63.743 1.00 37.56 AAAA ATOM 1681 CB LYS A 212 29.016 6.810 63.385 1.00 40.93 AAAA ATOM 1682 CG LYS A 212 29.016 5.746 64.405 1.00 42.04 AAAA ATOM 1683 CD LYS A 212 29.016 5.746 64.405 1.00 42.04 AAAA ATOM 1684 CE LYS A 212 29.0251 4.318 63.891 1.00 42.03 AAAA ATOM 1685 NZ LYS A 212 29.0251 4.318 63.891 1.00 42.80 AAAA ATOM 1685 NZ LYS A 212 27.075 10.269 65.218 1.00 37.08 AAAA ATOM 1687 O LYS A 212 27.075 10.269 65.218 1.00 37.08 AAAA ATOM 1689 CA GLYS A 213 26.552 12.054 63.170 1.00 34.24 AAAA ATOM 1689 CA GLY A 213 26.552 12.054 63.170 1.00 34.24 AAAA ATOM 1689 CA GLY A 213 25.163 12.438 63.470 1.00 34.24 AAAA ATOM 1691 O GLY A 213 25.163 12.438 63.470 1.00 34.24 AAAA ATOM 1692 N LYS A 214 22.880 11.451 63.552 1.00 31.79 AAAA ATOM 1692 N LYS A 214 22.880 11.710 63.766 1.00 33.27 AAAA ATOM 1692 N LYS A 214 22.881 11.710 63.794 1.00 30.47 AAAA ATOM 1697 CE LYS A 214 22.881 11.710 63.794 1.00 30.47 AAAA ATOM 1697 CE LYS A 214 22.881 11.710 63.794 1.00 30.47 AAAA ATOM 1697 CE LYS A 214 22.881 11.710 63.794 1.00 30.45 AAAA ATOM 1697 CE LYS A 214 22.211 10.396 63.737 1.00 30.45 AAAA ATOM 1697 CE LYS A 214 22.211 10.396 63.737 1.00 30.47 AAAA ATOM 1697 CE LYS A 214 22.211 10.396 63.737 1.00 30.47 AAAA ATOM 1698 CA GLY A 215 22.481 18.737 9.400 62.229 1.00 30.19 AAAAA ATOM 1697 CE LYS A 214 22.881 1.710 63.794 1.00 30.45 AAAA ATOM 1697 CE LYS A 214 22.811 10.396 63.737 1.00 30.47 AAAA ATOM 1697 CE LYS A 214 22.111 10.396 63.737 1.00 30.45 AAAA ATOM 1698 CA GLY A 215 22.4281 13.590 65.592 1.00 29.95 AAAAA ATOM 1700 C GLY A 215 22.4281 13.590 65.592 1.00 29.95 AAAAA ATOM 1700 C GLY A 215 22.4281 13.590 65.592 1.00 29.95 AAAAA ATOM 1700 C GL	ATOM		GLU A 210				1.00 38.52	
ATOM 1676 CA GLY A 211	ATOM	_	GLU A 210				1.00 38.02	
ATOM 1677 C GLY A 211	ATOM	1675 N					1.00 38.09	AAAA
ATOM 1678 O GLY A 211 24.697 8.443 62.977 1.00 37.82 AAAA ATOM 1679 N LYS A 212 26.848 8.030 62.434 1.00 37.56 AAAA ATOM 1681 CB LYS A 212 27.396 8.299 63.743 1.00 37.56 AAAA ATOM 1681 CB LYS A 212 29.01 5.746 64.405 1.00 40.93 AAAA ATOM 1682 CD LYS A 212 29.01 5.746 64.405 1.00 40.93 AAAA ATOM 1683 CD LYS A 212 29.01 5.746 64.405 1.00 42.80 AAAA ATOM 1683 CD LYS A 212 29.051 4.318 63.891 1.00 42.80 AAAA ATOM 1685 CD LYS A 212 29.251 4.318 63.891 1.00 42.80 AAAA ATOM 1685 CD LYS A 212 29.251 4.318 63.891 1.00 42.80 AAAA ATOM 1686 C LYS A 212 27.093 9.859 64.054 1.00 37.08 AAAA ATOM 1686 C LYS A 212 27.093 9.859 64.054 1.00 37.08 AAAA ATOM 1688 NZ LYS A 212 27.075 10.269 65.218 1.00 36.94 AAAA ATOM 1688 NZ LYS A 212 27.075 10.269 65.218 1.00 36.94 AAAA ATOM 1689 CA GLY A 213 26.854 10.636 63.002 1.00 35.41 AAAA ATOM 1689 CA GLY A 213 26.854 10.636 63.002 1.00 33.27 AAAA ATOM 1690 C GLY A 213 24.861 13.611 63.666 1.00 33.27 AAAA ATOM 1691 O GLY A 213 24.861 13.611 63.666 1.00 33.29 AAAA ATOM 1693 CA LYS A 214 22.883 11.710 63.794 1.00 30.47 AAAA ATOM 1693 CA LYS A 214 22.883 11.710 63.794 1.00 30.47 AAAA ATOM 1697 CE LYS A 214 22.111 10.396 63.737 1.00 30.35 AAAA ATOM 1699 C LYS A 214 22.111 10.396 63.737 1.00 30.35 AAAA ATOM 1699 C LYS A 214 22.111 10.396 63.737 1.00 30.45 AAAA ATOM 1699 C LYS A 214 22.111 10.396 63.737 1.00 30.45 AAAA ATOM 1699 C LYS A 214 22.111 10.396 63.737 1.00 30.44 AAAA ATOM 1699 C LYS A 214 22.111 10.396 63.737 1.00 30.45 AAAA ATOM 1699 C LYS A 214 22.111 10.396 63.737 1.00 30.44 AAAA ATOM 1698 NZ LYS A 214 22.111 10.396 63.737 1.00 30.47 AAAA ATOM 1698 NZ LYS A 214 22.111 10.396 63.737 1.00 30.45 AAAA ATOM 1700 O LYS A 214 22.113 13.590 65.192 1.00 29.95 AAAA ATOM 1700 C LYS A 214 22.113 13.590 65.192 1.00 29.95 AAAA ATOM 1700 C C LYS A 214 22.113 13.590 65.192 1.00 29.95 AAAA ATOM 1700 C C LYS A 215 22.243 13.590 65.192 1.00 29.95 AAAA ATOM 1700 C C LYS A 215 22.243 13.590 65.192 1.00 29.95 AAAA ATOM 1700 C C LYS A 215 22.438 13.735 66.555 1.00 29.96 AAAA ATOM 1700 C C LYR A 216 26.138	MOTA	1676 C	A GLY A 211				1.00 38.26	
ATOM 1679 N LYS A 212 27.396 8.399 63.743 1.00 37.56 AAAA ATOM 1681 CB LYS A 212 27.396 8.399 63.743 1.00 37.56 AAAA ATOM 1681 CB LYS A 212 29.916 6.810 63.385 1.00 40.93 AAAA ATOM 1682 CG LYS A 212 29.001 5.746 64.405 1.00 42.04 AAAA ATOM 1683 CD LYS A 212 29.251 4.318 63.891 1.00 42.04 AAAA ATOM 1684 CE LYS A 212 29.251 4.318 63.891 1.00 42.03 AAAA ATOM 1685 NZ LYS A 212 29.251 4.318 63.891 1.00 42.32 AAAA ATOM 1686 C LYS A 212 27.093 9.859 64.054 1.00 37.08 AAAA ATOM 1686 C LYS A 212 27.093 9.859 64.054 1.00 37.08 AAAA ATOM 1687 O LYS A 212 27.093 9.859 64.054 1.00 37.08 AAAA ATOM 1688 N GLY A 213 26.854 10.636 63.002 1.00 35.41 AAAA ATOM 1689 C GLY A 213 26.854 10.636 63.002 1.00 35.41 AAAA ATOM 1690 C GLY A 213 25.163 12.438 63.470 1.00 33.27 AAAA ATOM 1690 C GLY A 213 24.861 13.611 63.666 1.00 33.29 AAAA ATOM 1699 N LYS A 214 22.883 11.710 63.694 1.00 30.47 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.694 1.00 30.47 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.694 1.00 30.47 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.666 1.00 33.29 AAAA ATOM 1699 C LYS A 214 22.881 11.710 63.794 1.00 30.47 AAAA ATOM 1699 C LYS A 214 22.883 11.710 63.794 1.00 30.47 AAAA ATOM 1699 C LYS A 214 20.676 10.552 63.280 1.00 30.35 AAAA ATOM 1699 C LYS A 214 20.141 19.241 62.759 1.00 29.75 AAAA ATOM 1699 C LYS A 214 20.141 19.241 62.759 1.00 29.75 AAAA ATOM 1699 C LYS A 214 20.141 19.241 62.759 1.00 30.45 AAAA ATOM 1700 O LYS A 214 22.181 10.396 65.797 1.00 30.45 AAAA ATOM 1700 C LYS A 214 22.181 10.396 65.591 1.00 29.75 AAAA ATOM 1700 N GLY A 215 22.243 13.590 65.592 1.00 29.75 AAAA ATOM 1700 C LYS A 214 22.181 13.590 65.592 1.00 29.75 AAAA ATOM 1700 C LYS A 214 22.181 13.590 65.592 1.00 29.75 AAAA ATOM 1700 C LYS A 215 22.243 13.590 65.591 1.00 29.95 AAAA ATOM 1700 C LYS A 216 22.431 13.590 66.592 1.00 29.95 AAAA ATOM 1700 C LYS A 216 22.243 13.590 65.591 1.00 29.95 AAAA ATOM 1700 C LYS A 216 22.243 13.590 66.951 1.00 29.95 AAAA ATOM 1700 C LYS A 216 22.243 13.590 66.951 1.00 29.96 AAAA ATOM 1700 C LYS A 216 26.516 1.500 66.518 1.		1677 C	GLY A 211				1.00 37.82	AAAA
ATOM 1680 CA LYS A 212 27.396 8.399 63.743 1.00 37.56 AAAA ATOM 1681 CB LYS A 212 28.921 8.209 63.766 1.00 40.93 AAAA ATOM 1682 CG LYS A 212 29.001 5.746 64.405 1.00 42.04 AAAA ATOM 1683 CD LYS A 212 29.001 5.746 64.405 1.00 42.04 AAAA ATOM 1683 CD LYS A 212 29.251 4.318 63.891 1.00 42.80 AAAA ATOM 1685 NZ LYS A 212 29.251 4.318 63.562 1.00 42.32 AAAA ATOM 1686 C LYS A 212 27.075 10.269 65.218 1.00 42.32 AAAA ATOM 1686 C LYS A 212 27.075 10.269 65.218 1.00 36.94 AAAA ATOM 1686 C LYS A 212 27.075 10.269 65.218 1.00 36.94 AAAA ATOM 1688 NZ LYS A 212 27.075 10.269 65.218 1.00 36.94 AAAA ATOM 1689 CA GLY A 213 26.854 10.636 63.002 1.00 35.41 AAAA ATOM 1689 CA GLY A 213 26.854 10.636 63.400 1.00 33.27 AAAA ATOM 1690 C GLY A 213 26.854 10.636 63.400 1.00 33.27 AAAA ATOM 1690 C GLY A 213 24.861 13.611 63.666 1.00 33.29 AAAA ATOM 1691 O GLY A 213 24.861 13.611 63.666 1.00 33.29 AAAA ATOM 1693 CA LYS A 214 22.883 11.710 63.794 1.00 30.47 AAAA ATOM 1694 CB LYS A 214 22.883 11.710 63.794 1.00 30.47 AAAA ATOM 1695 CG LYS A 214 22.883 11.710 63.794 1.00 30.45 AAAA ATOM 1695 CG LYS A 214 20.676 10.552 63.280 1.00 30.45 AAAA ATOM 1696 CD LYS A 214 20.676 10.552 63.280 1.00 30.45 AAAA ATOM 1697 CE LYS A 214 20.676 10.552 63.280 1.00 30.45 AAAA ATOM 1699 C LYS A 214 22.778 12.374 65.168 1.00 30.31 AAAA ATOM 1699 C LYS A 214 22.778 12.374 65.168 1.00 30.31 AAAA ATOM 1699 C LYS A 214 22.778 12.374 65.168 1.00 30.31 AAAA ATOM 1700 C LYS A 214 22.778 12.374 65.168 1.00 30.31 AAAA ATOM 1700 C GLY A 215 22.243 13.590 66.537 1.00 29.95 AAAA ATOM 1700 C CA GLY A 215 22.243 13.590 66.577 1.00 29.95 AAAA ATOM 1700 C CA GLY A 215 23.222 15.379 66.552 1.00 28.54 AAAA ATOM 1700 C CA GLY A 215 23.222 15.379 66.592 1.00 29.95 AAAA ATOM 1700 C CA GLY A 215 23.222 15.379 66.592 1.00 29.95 AAAA ATOM 1700 C CA GLY A 215 23.222 15.379 66.592 1.00 29.95 AAAA ATOM 1700 C CA GLY A 215 23.222 15.379 66.592 1.00 29.95 AAAA ATOM 1700 C CA GLY A 215 23.222 15.379 66.592 1.00 29.96 AAAA ATOM 1700 C CA GLY A 216 25.505 17.599 64.581 1.00 25.40 AAAA ATOM 17		1678 C	GLY A 211		-		1.00 38.20	AAAA
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ATOM 1686 C LYS A 212 27.093 9.859 64.034 1.00 36.94 AAAA ATOM 1687 O LYS A 213 26.592 12.054 63.170 1.00 34.24 AAAA ATOM 1689 CA GLY A 213 26.592 12.054 63.170 1.00 33.27 AAAA ATOM 1691 O GLY A 213 24.861 13.611 63.666 1.00 33.29 AAAA ATOM 1692 N LYS A 214 24.280 11.451 63.512 1.00 31.79 AAAA ATOM 1693 CA LYS A 214 22.883 11.710 63.794 1.00 30.47 AAAA ATOM 1695 CG LYS A 214 22.883 11.710 63.794 1.00 30.47 AAAA ATOM 1695 CG LYS A 214 22.111 10.396 63.737 1.00 30.35 AAAA ATOM 1695 CG LYS A 214 20.676 10.552 63.280 1.00 30.45 AAAA ATOM 1696 CD LYS A 214 20.676 10.552 63.280 1.00 30.19 AAAA ATOM 1697 CE LYS A 214 20.141 9.241 62.759 1.00 29.75 AAAA ATOM 1699 C LYS A 214 18.737 9.400 62.229 1.00 30.19 AAAA ATOM 1699 C LYS A 214 22.778 12.374 65.168 1.00 30.31 AAAA ATOM 1700 O LYS A 214 22.778 12.374 65.168 1.00 30.31 AAAA ATOM 1701 N GLY A 215 22.243 13.590 65.192 1.00 29.95 AAAA ATOM 1702 CA GLY A 215 22.223 13.590 65.5192 1.00 29.16 AAAA ATOM 1703 C GLY A 215 22.224 133.590 65.592 1.00 28.27 AAAA ATOM 1704 O GLY A 215 23.222 15.379 66.582 1.00 28.27 AAAA ATOM 1706 CA TYR A 216 24.063 15.521 65.616 1.00 27.35 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 28.38 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.551 1.00 27.35 AAAA ATOM 1709 CD1 TYR A 216 26.318 13.735 66.955 1.00 29.81 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.318 13.735 66.955 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.551 1.00 27.08 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.551 1.00 27.08 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.551 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.551 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.551 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.551 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.551 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.551 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.551 1.00 29.91 AAAA ATOM 1707 CB TYR			N7 T.YS A 212	30.673			1.00 42.32	
ATOM 1688 N GLY A 213 26.854 10.636 63.002 1.00 35.41 AAAA ATOM 1688 N GLY A 213 26.854 10.636 63.002 1.00 35.41 AAAA ATOM 1689 CA GLY A 213 26.592 12.054 63.170 1.00 34.24 AAAA ATOM 1690 C GLY A 213 24.861 13.611 63.666 1.00 33.29 AAAA ATOM 1691 O GLY A 213 24.861 13.611 63.666 1.00 33.29 AAAA ATOM 1692 N LYS A 214 24.280 11.451 63.512 1.00 31.79 AAAA ATOM 1693 CA LYS A 214 22.883 11.710 63.794 1.00 30.47 AAAA ATOM 1694 CB LYS A 214 22.111 10.396 63.737 1.00 30.35 AAAA ATOM 1695 CG LYS A 214 20.676 10.552 63.280 1.00 30.45 AAAA ATOM 1695 CG LYS A 214 20.676 10.552 63.280 1.00 30.45 AAAA ATOM 1696 CD LYS A 214 20.141 9.241 62.759 1.00 29.75 AAAA ATOM 1697 CE LYS A 214 18.737 9.400 62.229 1.00 30.19 AAAA ATOM 1698 NZ LYS A 214 22.778 12.374 65.168 1.00 30.31 AAAA ATOM 1698 NZ LYS A 214 22.778 12.374 65.168 1.00 30.44 AAAA ATOM 1700 O LYS A 214 22.778 12.374 65.168 1.00 30.44 AAAA ATOM 1700 C LYS A 215 22.243 13.590 65.192 1.00 29.95 AAAAA ATOM 1703 C GLY A 215 22.128 14.325 66.437 1.00 29.16 AAAA ATOM 1703 C GLY A 215 22.224 13.590 65.192 1.00 29.95 AAAAA ATOM 1706 CA TYR A 216 24.063 15.521 65.561 1.00 27.35 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 28.27 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.757 1.00 30.21 AAAA ATOM 1709 CD1 TYR A 216 26.516 15.800 65.757 1.00 30.29.81 AAAA ATOM 1709 CD1 TYR A 216 26.516 15.800 65.757 1.00 30.29.81 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.757 1.00 30.29.81 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.757 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.757 1.00 30.29.81 AAAA ATOM 1709 CD1 TYR A 216 26.516 15.800 65.757 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.757 1.00 29.91 AAAA ATOM 1709 CD1 TYR A 216 26.516 15.800 65.757 1.00 30.29.81 AAAA ATOM 1710 CEI TYR A 216 26.516 15.800 65.757 1.00 30.29.81 AAAA ATOM 1710 CEI TYR A 216 26.516 15.800 65.757 1.00 30.99.81 AAAA ATOM 1711 CD2 TYR A 216 26.516 15.800 65.757 1.00 30.99.96 AAAA ATOM 1711 CD2 TYR A 216 26.516 15.800 65.757 1.00 29.91 AAAA ATOM 1711 CD2 TYR A 216 27.798 14.741 68.95				27.093			1.00 37.08	
ATOM 1688 N GLY A 213 26.854 10.636 63.012 1.00 34.24 AAAA ATOM 1689 CA GLY A 213 25.163 12.438 63.470 1.00 33.27 AAAA ATOM 1691 O GLY A 213 24.861 13.611 63.666 1.00 33.29 AAAA ATOM 1692 N LYS A 214 22.883 11.710 63.794 1.00 30.47 AAAA ATOM 1693 CA LYS A 214 22.883 11.710 63.794 1.00 30.35 AAAA ATOM 1695 CG LYS A 214 22.881 11.710 63.794 1.00 30.35 AAAA ATOM 1695 CG LYS A 214 20.676 10.552 63.280 1.00 30.45 AAAA ATOM 1695 CG LYS A 214 20.676 10.552 63.280 1.00 30.45 AAAA ATOM 1696 CD LYS A 214 20.676 10.552 63.280 1.00 30.45 AAAA ATOM 1697 CE LYS A 214 18.737 9.400 62.229 1.00 30.19 AAAA ATOM 1698 NZ LYS A 214 18.737 9.400 62.229 1.00 30.19 AAAA ATOM 1699 C LYS A 214 18.737 9.400 62.229 1.00 30.19 AAAA ATOM 1699 C LYS A 214 22.778 12.374 65.168 1.00 30.31 AAAA ATOM 1700 O LYS A 214 23.193 11.814 66.177 1.00 30.44 AAAA ATOM 1700 N GLY A 215 22.243 13.590 65.192 1.00 29.95 AAAA ATOM 1703 C GLY A 215 23.222 15.379 66.582 1.00 29.95 AAAA ATOM 1703 C GLY A 215 23.222 15.379 66.582 1.00 29.95 AAAA ATOM 1703 C GLY A 215 23.222 15.379 66.582 1.00 28.57 AAAA ATOM 1705 N TYR A 216 25.150 16.061 67.602 1.00 28.27 AAAA ATOM 1707 CB TYR A 216 25.150 16.497 65.616 1.00 27.35 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 29.981 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 29.981 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 29.981 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 29.981 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 29.981 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 66.777 1.00 30.21 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 67.774 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 67.774 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 67.774 1.00 29.91 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 67.774 1.00 29.91 AAAA ATOM 1712 CE2 TYR A 216 26.516 15.800 67.774 1.00 29.91 AAAA ATOM 1712 CE2 TYR A 216 26.516 15.800 65.531 1.00 30.84 AAAA ATOM 1715 CC TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAA ATOM 1715 CC			O IVS à 212	27.075	10.269		1.00 36.94	
ATOM 1689 CA GLY A 213		-			10.636		1.00 35.41	
ATOM 1690 C GLY A 213			O CIV 3 213		12.054	63.170	1.00 34.24	
ATOM 1691 O GLY A 213 ATOM 1692 N LYS A 214 ATOM 1693 CA LYS A 214 ATOM 1693 CA LYS A 214 ATOM 1694 CB LYS A 214 ATOM 1695 CG LYS A 214 ATOM 1696 CD LYS A 214 ATOM 1697 CE LYS A 214 ATOM 1697 CE LYS A 214 ATOM 1698 NZ LYS A 214 ATOM 1699 C LYS A 214 ATOM 1698 NZ LYS A 214 ATOM 1699 C LYS A 214 ATOM 1699 C LYS A 214 ATOM 1699 C LYS A 214 ATOM 1690 C LYS A 214 ATOM 1700 O LYS A 214 ATOM 1700 O LYS A 214 ATOM 1701 N GLY A 215 ATOM 1702 CA GLY A 215 ATOM 1703 C GLY A 215 ATOM 1704 O GLY A 215 ATOM 1705 N TYR A 216 ATOM 1706 CA TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1700 CE1 TYR A 216 ATOM 1701 CE2 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A					12.438	63.470		
ATOM 1692 N LYS A 214 22.883 11.710 63.512 1.00 30.47 AAAA ATOM 1693 CA LYS A 214 22.883 11.710 63.794 1.00 30.47 AAAA ATOM 1694 CB LYS A 214 22.111 10.396 63.737 1.00 30.45 AAAA ATOM 1695 CG LYS A 214 20.676 10.552 63.280 1.00 30.45 AAAA ATOM 1696 CD LYS A 214 20.141 9.241 62.759 1.00 29.75 AAAA ATOM 1697 CE LYS A 214 18.737 9.400 62.229 1.00 30.19 AAAAA ATOM 1698 NZ LYS A 214 18.737 9.400 62.229 1.00 30.19 AAAAA ATOM 1699 C LYS A 214 22.778 12.374 65.168 1.00 30.31 AAAAA ATOM 1700 O LYS A 214 22.778 12.374 65.168 1.00 30.31 AAAAA ATOM 1700 O LYS A 214 22.778 12.374 65.168 1.00 30.31 AAAAA ATOM 1700 O LYS A 215 22.128 14.325 66.437 1.00 29.95 AAAAA ATOM 1702 CA GLY A 215 22.128 14.325 66.437 1.00 29.95 AAAAA ATOM 1703 C GLY A 215 23.222 15.379 66.582 1.00 28.54 AAAA ATOM 1704 O GLY A 215 23.306 16.061 67.602 1.00 28.27 AAAA ATOM 1705 N TYR A 216 24.063 15.521 65.561 1.00 27.35 AAAAA ATOM 1706 CA TYR A 216 25.150 16.497 65.616 1.00 27.08 AAAAA ATOM 1708 CG TYR A 216 26.516 15.800 65.531 1.00 28.38 AAAA ATOM 1709 CD1 TYR A 216 26.786 14.966 66.757 1.00 30.21 AAAAA ATOM 1709 CD1 TYR A 216 26.786 14.966 66.757 1.00 30.21 AAAAA ATOM 1709 CD1 TYR A 216 26.311 13.014 68.138 1.00 30.03 AAAAA ATOM 1710 CE1 TYR A 216 26.311 13.014 68.957 1.00 29.96 AAAAA ATOM 1710 CE1 TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAAA ATOM 1713 CZ TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAAA ATOM 1713 CZ TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAAA ATOM 1714 OH TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAAA ATOM 1713 CZ TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAAA ATOM 1714 OH TYR A 216 27.143 13.528 69.138 1.00 30.84 AAAA AAAA ATOM 1714 OH TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAAA AAAA ATOM 1715 C TYR A 216 25.055 17.599 64.581 1.00 25.400 AAAAA AAAAA ATOM 1715 C TYR A 216 25.055 17.599 64.581 1.00 25.400 AAAAA AAAAA ATOM 1716 O TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAAA AAAAA ATOM 1715 C TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAA			C GLI A 213			63.666	1.00 33.29	
ATOM 1693 CA LYS A 214	MOTA		O GL1 A 213			63.512	1.00 31.79	
ATOM 1694 CB LYS A 214	MOTA		N LYS A 214				1.00 30.47	
ATOM 1694 CB LYS A 214 ATOM 1695 CG LYS A 214 ATOM 1696 CD LYS A 214 ATOM 1696 CD LYS A 214 ATOM 1697 CE LYS A 214 ATOM 1698 NZ LYS A 214 ATOM 1699 C LYS A 214 ATOM 1699 C LYS A 214 ATOM 1700 O LYS A 214 ATOM 1700 O LYS A 214 ATOM 1701 N GLY A 215 ATOM 1701 C GLY A 215 ATOM 1702 CA GLY A 215 ATOM 1703 C GLY A 215 ATOM 1704 O GLY A 215 ATOM 1705 N TYR A 216 ATOM 1706 CA TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1701 CC2 TYR A 216 ATOM 1703 CC TYR A 216 ATOM 1704 CD2 TYR A 216 ATOM 1705 CD2 TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1710 CC2 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1712 CC2 TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1714 OH TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 A	MOTA		CA LYS A 214				1.00 30.35	
ATOM 1695 CG LYS A 214 ATOM 1696 CD LYS A 214 ATOM 1697 CE LYS A 214 ATOM 1698 NZ LYS A 214 ATOM 1699 C LYS A 214 ATOM 1700 O LYS A 214 ATOM 1700 O LYS A 214 ATOM 1701 N GLY A 215 ATOM 1702 CA GLY A 215 ATOM 1703 C GLY A 215 ATOM 1704 O GLY A 215 ATOM 1705 N TYR A 216 ATOM 1706 CA TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1701 CE2 TYR A 216 ATOM 1703 CE2 TYR A 216 ATOM 1704 O TYR A 216 ATOM 1705 CT TYR A 216 ATOM 1706 CA TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1701 CE2 TYR A 216 ATOM 1701 CE2 TYR A 216 ATOM 1701 CE3 TYR A 216 ATOM 1703 CE3 TYR A 216 ATOM 1704 CT3 TYR A 216 ATOM 1705 CT3 TYR A 216 ATOM 1706 CT3 TYR A 216 ATOM 1707 CT3 TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1700 CE3 TYR A 216 ATOM 1701 CE3 TYR A 216 ATOM 1703 CC3 TYR A 216 ATOM 1704 CT3 TYR A 216 ATOM 1705 CT3 TYR A 216 ATOM 1705 CT3 TYR A 216 ATOM 1706 CG TYR A 216 ATOM 1707 CT3 TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1700 CG3 TYR A 216 ATOM 1706 CG TYR A 216 ATOM 1700 CG TYR A 216 ATOM 1700 CG TYR A 216	ATOM		CB LYS A 214				1.00 30.45	
ATOM 1696 CD LYS A 214 ATOM 1697 CE LYS A 214 ATOM 1698 NZ LYS A 214 ATOM 1698 NZ LYS A 214 ATOM 1699 C LYS A 214 ATOM 1699 C LYS A 214 ATOM 1699 C LYS A 214 ATOM 1700 O LYS A 214 ATOM 1701 N GLY A 215 ATOM 1701 N GLY A 215 ATOM 1702 CA GLY A 215 ATOM 1703 C GLY A 215 ATOM 1704 O GLY A 215 ATOM 1705 N TYR A 216 ATOM 1705 N TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1710 CE1 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1712 CZ TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1714 OH TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 ATOM 1716 O TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 ATOM	MOTA	1695	CG LYS A 214	20.070		62.759	1.00 29.75	AAAA
ATOM 1697 CE LYS A 214 ATOM 1698 NZ LYS A 214 ATOM 1699 C LYS A 214 ATOM 1699 C LYS A 214 ATOM 1700 O LYS A 214 ATOM 1700 N GLY A 215 ATOM 1701 N GLY A 215 ATOM 1702 CA GLY A 215 ATOM 1703 C GLY A 215 ATOM 1704 O GLY A 215 ATOM 1705 N TYR A 216 ATOM 1706 CA TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1710 CE2 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1712 CE2 TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1714 OH TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216	ATOM	1696	CD LYS A 214	20.141	0.400		1.00 30.19	
ATOM 1698 NZ LYS A 214		1697	CE LYS A 214				1.00 31.35	AAAA
ATOM 1699 C LYS A 214 23.193 11.814 66.177 1.00 30.44 AAAA ATOM 1700 O LYS A 214 23.193 11.814 66.177 1.00 29.95 AAAA ATOM 1701 N GLY A 215 22.243 13.590 65.192 1.00 29.95 AAAA ATOM 1702 CA GLY A 215 22.128 14.325 66.437 1.00 29.16 AAAA ATOM 1703 C GLY A 215 23.222 15.379 66.582 1.00 28.54 AAAA ATOM 1704 O GLY A 215 23.306 16.061 67.602 1.00 28.27 AAAA ATOM 1705 N TYR A 216 24.063 15.521 65.561 1.00 27.35 AAAA ATOM 1706 CA TYR A 216 26.516 15.800 65.531 1.00 28.38 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 28.38 AAAA ATOM 1708 CG TYR A 216 26.786 14.966 66.757 1.00 30.21 AAAA ATOM 1709 CD1 TYR A 216 26.138 13.735 66.955 1.00 29.81 AAAA ATOM 1710 CE1 TYR A 216 26.311 13.014 68.138 1.00 30.03 AAAA ATOM 1711 CD2 TYR A 216 27.619 15.450 67.774 1.00 29.71 AAAA ATOM 1712 CE2 TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAA ATOM 1713 CZ TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAA ATOM 1714 OH TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAA AAAA ATOM 1714 OH TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAA AAAA ATOM 1715 C TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAA AAAA ATOM 1715 C TYR A 216 25.055 17.599 64.581 1.00 25.40 AAAA AAAA ATOM 1715 C TYR A 216 25.055 17.599 64.581 1.00 26.38 AAAA		1698	NZ LYS A 214				1.00.30.31	AAAA
ATOM 1700 O LYS A 214 ATOM 1701 N GLY A 215 ATOM 1701 N GLY A 215 ATOM 1702 CA GLY A 215 ATOM 1703 C GLY A 215 ATOM 1704 O GLY A 215 ATOM 1705 N TYR A 216 ATOM 1706 CA TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1710 CE1 TYR A 216 ATOM 1710 CE1 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1712 CE2 TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1714 OH TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216			C LYS A 214				1 00 30.44	AAAA
ATOM 1701 N GLY A 215 ATOM 1702 CA GLY A 215 ATOM 1703 C GLY A 215 ATOM 1704 O GLY A 215 ATOM 1705 N TYR A 216 ATOM 1706 CA TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1710 CE1 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1712 CE2 TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1714 OH TYR A 216 ATOM 1715 C TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 ATOM 1716 O TYR A 216 ATOM 1717 CB2 TYR A 216 ATOM 1718 CG2 TYR A 216 ATOM 1719 CD1 TYR A 216 ATOM 1710 CE1 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1712 CE2 TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1714 OH TYR A 216 ATOM 1715 C TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 ATOM 1715 C TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 AAAA ATOM 1716 O TYR A 216 ATOM 17			O LYS A 214	23.193				
ATOM 1702 CA GLY A 215 ATOM 1703 C GLY A 215 ATOM 1704 O GLY A 215 ATOM 1705 N TYR A 216 ATOM 1706 CA TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1710 CE1 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1712 CE2 TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1714 OH TYR A 216 ATOM 1715 C TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 ATOM 1717 CB2 TYR A 216 ATOM 1718 CG2 TYR A 216 ATOM 1719 CD1 TYR A 216 ATOM 1710 CE1 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1712 CE2 TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1714 OH TYR A 216 ATOM 1715 C TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 AAAA ATOM 1716 O TYR A 216 ATOM 1716 O TYR A 216 AAAA AAAA AAAA AAAA AAAA AAAA AAAA A			N GLY A 215				1.00 29.35	
ATOM 1703 C GLY A 215 ATOM 1704 O GLY A 215 ATOM 1705 N TYR A 216 ATOM 1706 CA TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1710 CE1 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1712 CE2 TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1714 OH TYR A 216 ATOM 1715 C TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 ATOM 1716 O TYR A 216 ATOM 1717 CE2 TYR A 216 ATOM 1718 CE2 TYR A 216 ATOM 1719 CE2 TYR A 216 ATOM 1710 CE3 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1712 CE2 TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1714 OH TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A			CA GLY A 215	22.128			1.00 29.10	
ATOM 1704 O GLY A 215 ATOM 1705 N TYR A 216 ATOM 1706 CA TYR A 216 ATOM 1707 CB TYR A 216 ATOM 1708 CG TYR A 216 ATOM 1709 CD1 TYR A 216 ATOM 1710 CE1 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1712 CE2 TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1714 OH TYR A 216 ATOM 1715 C TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 ATOM 1716 O TYR A 216 ATOM 1716 O TYR A 216 ATOM 1717 CE2 TYR A 216 ATOM 1718 CZ TYR A 216 ATOM 1719 CE2 TYR A 216 ATOM 1710 CE2 TYR A 216 ATOM 1711 CE2 TYR A 216 ATOM 1712 CE2 TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1714 OH TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A			C GLY A 215	23.222				
ATOM 1705 N TYR A 216 24.063 15.521 65.581 1.00 27.08 AAAA ATOM 1706 CA TYR A 216 25.150 16.497 65.616 1.00 27.08 AAAA AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 28.38 AAAA ATOM 1708 CG TYR A 216 26.786 14.966 66.757 1.00 30.21 AAAA ATOM 1709 CD1 TYR A 216 26.138 13.735 66.955 1.00 29.81 AAAA ATOM 1710 CE1 TYR A 216 26.311 13.014 68.138 1.00 30.03 AAAA ATOM 1711 CD2 TYR A 216 27.619 15.450 67.774 1.00 29.71 AAAA ATOM 1712 CE2 TYR A 216 27.619 15.450 67.774 1.00 29.96 AAAA ATOM 1713 CZ TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAA ATOM 1714 OH TYR A 216 27.143 13.528 69.138 1.00 30.84 AAAA ATOM 1714 OH TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAA ATOM 1715 C TYR A 216 25.055 17.599 64.581 1.00 25.40 AAAA ATOM 1715 O TYR A 216 26.046 18.240 64.243 1.00 26.38				23.306				
ATOM 1706 CA TYR A 216 25.150 16.497 65.511 1.00 28.38 AAAA ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 28.38 AAAA ATOM 1708 CG TYR A 216 26.786 14.966 66.757 1.00 30.21 AAAA ATOM 1709 CD1 TYR A 216 26.138 13.735 66.955 1.00 29.81 AAAA ATOM 1710 CE1 TYR A 216 26.311 13.014 68.138 1.00 30.03 AAAA ATOM 1711 CD2 TYR A 216 27.619 15.450 67.774 1.00 29.71 AAAA ATOM 1712 CE2 TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAA ATOM 1713 CZ TYR A 216 27.143 13.528 69.138 1.00 30.84 AAAA ATOM 1714 OH TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAA ATOM 1715 C TYR A 216 25.055 17.599 64.581 1.00 25.40 AAAA ATOM 1715 C TYR A 216 25.055 17.599 64.243 1.00 26.38 AAAA			N TVP 2 216	24.063	15.52	65.561		
ATOM 1707 CB TYR A 216 26.516 15.800 65.531 1.00 28.38 AAAA ATOM 1708 CG TYR A 216 26.786 14.966 66.757 1.00 30.21 AAAA ATOM 1709 CD1 TYR A 216 26.138 13.735 66.955 1.00 29.81 AAAA ATOM 1710 CE1 TYR A 216 26.311 13.014 68.138 1.00 30.03 AAAA ATOM 1711 CD2 TYR A 216 27.619 15.450 67.774 1.00 29.71 AAAA ATOM 1712 CE2 TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAA ATOM 1713 CZ TYR A 216 27.143 13.528 69.138 1.00 30.84 AAAA ATOM 1714 OH TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAA ATOM 1715 C TYR A 216 25.055 17.599 64.581 1.00 25.40 AAAA ATOM 1716 O TYR A 216 26.046 18.240 64.243 1.00 26.38 AAAA			C: TYP 3 216	25.150	16.497	7 65.616		
ATOM 1708 CG TYR A 216 26.786 14.966 66.757 1.00 30.21 AAAA 1708 1709 CD1 TYR A 216 26.138 13.735 66.955 1.00 29.81 AAAA 1709 CD1 TYR A 216 26.311 13.014 68.138 1.00 30.03 AAAA 1709 CD2 TYR A 216 27.619 15.450 67.774 1.00 29.71 AAAA 1709 CD2 TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAA 1709 1713 CZ TYR A 216 27.143 13.528 69.138 1.00 30.84 AAAA 1709 1714 OH TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAA 1709 1715 C TYR A 216 25.055 17.599 64.581 1.00 25.40 AAAA 1709 1716 O TYR A 216 26.046 18.240 64.243 1.00 26.38 AAAA			CA 112 A 216			55.531		
ATOM 1708 CG 15R A 216 ATOM 1709 CD1 TYR A 216 ATOM 1710 CE1 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1711 CD2 TYR A 216 ATOM 1712 CE2 TYR A 216 ATOM 1712 CE2 TYR A 216 ATOM 1713 CZ TYR A 216 ATOM 1714 OH TYR A 216 ATOM 1715 C TYR A 216 ATOM 1715 C TYR A 216 ATOM 1716 O TYR A 216 AAAA ATOM 1716 O TYR A 216			CD .1R A 210				1.00 30.21	
ATOM 1709 CD1 TYR A 216 26.311 13.014 68.138 1.00 30.03 AAAA ATOM 1710 CE1 TYR A 216 27.619 15.450 67.774 1.00 29.71 AAAA ATOM 1711 CD2 TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAA ATOM 1713 CZ TYR A 216 27.143 13.528 69.138 1.00 30.84 AAAA ATOM 1714 OH TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAA ATOM 1715 C TYR A 216 25.055 17.599 64.581 1.00 25.40 AAAA ATOM 1716 O TYR A 216 26.046 18.240 64.243 1.00 26.38 AAAA	MOTA						1.00 29.81	
ATOM 1710 CE1 TYR A 216 27.619 15.450 67.774 1.00 29.71 AAAA ATOM 1711 CD2 TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAA ATOM 1712 CE2 TYR A 216 27.143 13.528 69.138 1.00 30.84 AAAA ATOM 1714 OH TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAA ATOM 1715 C TYR A 216 25.055 17.599 64.581 1.00 25.40 AAAA ATOM 1716 O TYR A 216 26.046 18.240 64.243 1.00 26.38 AAAA	MOTA						1.00 30.03	
ATOM 1711 CD2 TYR A 216 27.798 14.741 68.957 1.00 29.96 AAAA ATOM 1712 CE2 TYR A 216 27.143 13.528 69.138 1.00 30.84 AAAA ATOM 1713 CZ TYR A 216 27.143 13.528 69.138 1.00 31.14 AAAA ATOM 1714 OH TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAA ATOM 1715 C TYR A 216 25.055 17.599 64.581 1.00 25.40 AAAA ATOM 1716 O TYR A 216 26.046 18.240 64.243 1.00 26.38 AAAA		1710			_		1.00 29.71	
ATOM 1712 CE2 TYR A 216 27.796 14.741 0.0 30.84 AAAA ATOM 1713 CZ TYR A 216 27.143 13.528 69.138 1.00 30.84 AAAA ATOM 1714 OH TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAA ATOM 1715 C TYR A 216 25.055 17.599 64.581 1.00 25.40 AAAA ATOM 1716 O TYR A 216 26.046 18.240 64.243 1.00 26.38 AAAA								
ATCM 1713 CZ TYR A 216 27.143 13.528 69.136 1.00 31.14 AAAA ATCM 1714 OH TYR A 216 27.297 12.859 70.332 1.00 31.14 AAAA ATCM 1715 C TYR A 216 25.055 17.599 64.581 1.00 25.40 AAAA ATCM 1716 O TYR A 216 26.046 18.240 64.243 1.00 26.38 AAAA			CE2 TYR A 216		-	. .		AAAA
ATOM 1714 OH TYR A 216 27.297 12.859 70.332 1.00 25.40 AAAA ATOM 1715 C TYR A 216 25.055 17.599 64.581 1.00 25.40 AAAA ATOM 1716 O TYR A 216 26.046 18.240 64.243 1.00 26.38 AAAA			CZ TYR A 216					AAAA
ATOM 1715 C TYR A 216 25.055 17.599 64.361 1.00 26.38 AAAA ATOM 1716 O TYR A 216 26.046 18.240 64.243 1.00 26.38 AAAA			OH TYR A 216			-		
ATOM 1716 O TYR A 216 26.046 18.240 64.243 1.00 20.00		·	C TYR A 216			9 64.581		
WIAN.			O TYR A 216	26.04	6 18.24	0 64.243	1.00 20.30	
	ATOM	1/10						

					02 045	17.791	64 076	1.00 23.55	AAAA
MOTA	1717	N	ASN A 2	17	23.845		63.119	1.00 21.52	AAAA
MOTA	1718	CA	ASN A 2	17	23.549	18.830 18.282	61.699	1.00 20.64	AAAA
ATOM	1719		ASN A 2		23.431		60.669	1.00 20.29	AAAA
MOTA	1720	CG	ASN A 2	17	23.202	19.386 19.888	60.499	1.00 18.03	AAAA
MOTA	1721	OD1	ASN A 2	17	22.089	19.790	60.004	1.00 19.95	AAAA
MOTA	1722	ND2	ASN A 2	17	24.274		63.605	1.00 21.64	AAAA
ATOM	1723	С	ASN A 2	17	22.216	19.346	63.757	1.00 20.34	AAAA
MOTA	1724	0	ASN A 2	17	21.263	18.576	63.873	1.00 22.22	AAAA
MOTA	1725	N	LEU A 2		22.165	20.647	64.388	1.00 22.03	AAAA
ATOM	1726	CA	LEU A 2		20.960	21.282	65.840	1.00 20.97	AAAA
MOTA	1727	CB	LEU A 2	18	21.195	21.711	66.841	1.00 20.94	AAAA
ATOM	1728	CG	LEU A 2	18	20.051	21.838	67.936	1.00 20.31	· AAAA
ATOM	1729	CD1	LEU A 2	18	20.513	22.744	66.227	1.00 21.27	AAAA
ATOM	1730	CD2	LEU A 2		18.818	22.412	63.547	1.00 22.70	AAAA
ATOM	1731	С	LEU A 2	18	20.669	22.513	63.557	1.00 22.64	AAAA
MOTA	1732	0	LEU A 2	18	21.451	23.454	62.808	1.00 24.00	AAAA
ATOM	1733	N	ASN A 2	19	19.564	22.491	62.808	1.00 25.33	AAAA
ATOM	1734	CA	ASN A 2		19.166	23.626	60.614	1.00 26.94	AAAA
ATOM	1735	CB	ASN A 2		18.656	23.190	59.749	1.00 26.68	AAAA
ATOM	1736	CG	ASN A 2	19	19.737	22.601	59.626	1.00 28.06	AAAA
ATOM	1737	OD1	ASN A 2	:19	20.812	23.169	59.020	1.00 26.26	AAAA
ATOM	1738	ND2	ASN A 2	19	19.446	21.471	62.710	1.00 25.69	AAAA
ATOM	1739	С	ASN A 2	19	18.046	24.345	63.210	1.00 27.51	AAAA
ATOM	1740	0	ASN A 2	19	17.118	23.706	62.753	1.00 25.05	AAAA
ATOM	1741	N	ILE A 2	220	18.122	25.667	63.428	1.00 25.87	AAAA
MOTA	1742	CA	ILE A 2	220	17.107	26.457	64.557	1.00 25.04	AAAA
MOTA	1743	CB	ILE A 2	220	17.733	27.331	65.227	1.00 25.24	AAAA
ATOM	1744	CG2		220	16.654	28.152	65.584	1.00 24.07	AAAA
ATOM	1745	CG1		220	18.460	26.447 25.502	66.378	1.00 22.28	AAAA
ATOM	1746	CD1	ILE A	220	17.557	27.370	62.414	1.00 26.20	AAAA
MOTA	1747	С	ILE A	220	16.430	28.534	62.265	1.00 25.35	AAAA
MOTA	1748	0	ILE A	220	16.801	26.850	61.704	1.00 26.70	AAAA
MOTA	1749	N	PRO A	221	15.421	25.501	61.778	1.00 27.17	AAAA
MOTA	1750	CD	PRO A		14.840	27.640	60.703	1.00 27.67	AAAA
MOTA	1751	CY	PRO A		14.706	26.613	60.064	1.00 26.81	AAAA
ATOM	1752	CB	PRO A	221	13.771	25.293	60.346	1.00 27.36	AAAA
MOTA	1753	CG	PRO A	221	14.473	28.763	61.390	1.00 28.61	AAAA
MOTA	1754	С	PRO A	221	13.944	28.515	62.363	1.00 29.91	AAAA
MOTA	1755	0	PRO A	221	13.218 14.100	29.990	60.900	1.00 28.15	AAAA
MOTA	1756	N	LEU A	222	13.408	31.117	61.511	1.00 28.48	AAAA
MOTA	1757	CA	LEU A	222	14.431		62.191	1.00 28.69	AAAA
MOTA	1758	CB	LEU A		15.187	31.394	63.371	1.00 28.67	AAAA
MOTA	1759	CG	LEU A	222	16.304	32.300	63.837	1.00 28.62	AAAA
MOTA	1760	CDI	LEU A	222	14.231	31.106	64.527	1.00 27.65	· AAAA
ATOM	1761	CD2	LEU A	222	12. 26		60.518	1.00 28.44	AAAA
MOTA	1762	C	LEU A	222	12. 18	31.958		1.00 27.90	AAAA
MOTA	1763	0	LEU A	222	1113			1.00 28.79	AAAA
MOTA	1764	N	PRO A	223 .	10.966				AAAA
MOTA	1765	CD	PRO A	223	10.437			1.00 29.36	AAAA
MOTA	1766		PRO A	222	9.256			1.00 28.98	AAAA
MOTA	1767		PRO A	223	9.965				AAAA
MOTA	1768		PRO A	223	10.890			1.00 30.15	AAAA
MOTA	1769		PRO A	223	11.864				AAAA
MOTA	1770		PRO A	223	10.150			1.00 30.50	AAAA
MOTA	1771		LYS A	224	10.398				AAAA
MOTA	1772		LYS A		9.491				AAAA
MOTA	1773		LYS A		9.588				AAAA
MOTA	1774		LYS A	224	8.640			1.00 30.91	AAAA
MOTA	1775		LYS A		8.575				AAAA
MOTA	1776		LYS A	224	7.628				AAAA
MOTA	1777		LYS A	224 .	10.050				AAAA
MOTA	1778		LYS A		9.308	_		1.00 29.84	AAAA
ATOM	1779		LYS A	224	10.55			1.00 29.39	AAAA
ATOM	1780		GLY A	223	10.35			1.00 29.87	. AAAA
MOTA	1781		GLY A	225	10.80	_			АААА
MOTA	1782	2 C	GLY A	220	10.80	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		•
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		_	GLY A	225		10.371	40.051	62.392	1.00 2	29.85	AAAA
ATOM		O (LEU A	226		11.775	38.536	61.499	1.00	29.50	AAAA
ATOM	1784 1785	CA	LEU A	226		12.374	38.175	62.778	1.00		AAAA
MOTA	1786		LEU A			13.513	37.170	62.570	1.00		AAAA AAAA
MOTA MOTA	1787		LEU A			14.097	36.514	63.820	1.00	21.29	AAAA
ATOM	1788	CD1	LEU A	226		13.132	35.452	64.275	1.00	20.00	AAAA
ATOM	1789	CD2	LEU A	226		15.455	35.888	63.538 63.448	1.00		AAAA
ATOM	1790			226	•	12.936	39.428 40:217	62.804	1.00	30.57	AAAA
MOTA	1791			226		13.636 12.624	39.617	64.729	1.00	31.46	AAAA
MOTA	1792	_		227		13.139	40.769	65.469	1.00	32.06	AAAA
MOTA	1793			A 227 A 227	-	12.012	41.507	66.217	1.00		AAAA
MOTA	1794	CB CG	ASN A	A 227		11.291	40.630	67.234	1.00	32.07	AAAA
ATOM	1795 1796	001	ASN A	A 227		11.914	40.017	68.104	1.00	31.61	AAAA AAAA
MOTA	1797	ND2	ASN A	A 227		9.962	40.592	67.141		31.59	AAAA
MOTA MOTA	1798	C	ASN A	A 227		14.225	40.334	66.444-	1.00	32.45 32.78	AAAA
ATOM	1799	0	ASN A	A 227		14.413	39.140	66.688 67.002		33.32	AAAA
MOTA	1800	N	ASP .	A 228		14.943	41.297 40.976	67.928	1.00	34.75	AAAA
ATOM	1801	CA	ASP A	A 228		16.017 16.508	42.233	68.654	1.00	36.77	AAAA
ATOM	1802	CB		A 228		17.154	43.238	67.714	1.00	37.28	AAAA
ATOM	1803	CG		A 228		17.662	42.816	66.652	1.00	37.78	AAAA
MOTA	1804	ODI	ASP .	A 228 A 228		17.180	44.443	68.054	1.00	37.21	AAAA
MOTA	1805 1806	C	ASP	A 228		15.707	39.892	68.964	1.00	34.93	AAAA
MOTA	1807	0		A 228		16.448	38.919	69.056	1.00	36.92	AAAA AAAA
MOTA ATOM	1808	N	ASN	A 229		14.635	40.054	69.741	1.00	33.90 33.01	AAAA
ATOM	1809	CA	ASN	A 229		14.268	39.079	70.775 71.455	1 00	33.79	AAAA
ATOM	1810	CB	ASN	A 229		12.965	39.481 40.663	72.369		34.04	AAAA
ATOM	1811	CG	ASN	A 229		13.131 13.783	40.564	73.405	1.00	34.25	AAAA
ATOM -		OD1	ASN	A 229		12.550	41.797	71.988	1.00	34.05	AAAA
ATOM	1813		ASN	A 229 A 229		14.114	37.656	70.276	1.00	32.98	AAAA
MOTA	1814	0	ASN	A 229		14.529	36.697		1.00	32.77	AAAA
MOTA	1815 1816	N	GLU	A 230		13.496	37.523	69.108	1.00	32.02	AAAA AAAA
MOTA MOTA	1817	CÀ	GLU	A 230		13.277	36.227	68.516	1.00	30.72 31.38	AAAA
ATOM	1818	CB	GLU	A 230		12.399	36.375	67.272	1.00	31.02	AAAA
ATOM	1819	CG	GLU	A 230		11.006	36.896 37.187	67.583 66.350	1 00	31.52	AAAA
ATOM	1820	CD	GLU	A 230		10.175 10.644	37.107		1.00	31.89	AAAA
MOTA	1821	OE1	GLU	A 230		9.047			1.00	31.04	AAAA
MOTA	1822		GLU	A 230 A 230		14.628			1.00	30.79	AAAA
MOTA	1823	C O	GLU	A 230		14.905		68.512		31.05	AAAA
MOTA	1824 1825	N	PHE	A 231		15.490	36.412			30.05	AAAA AAAA
MOTA MOTA	1826	CA	PHE	A 231		16.811		67.191		28.94	AAAA
ATOM	1827	CB	PHE	A 231		17.632	37.015			28.79	AAAA
ATOM	1828	CĠ	PHE	A 231		18.949				28.93	AAAA
MOTA	1829	CDI	PHE	A 231		18.982 20.152				28.55	AAAA
MOTA	1830	CDZ	PHE	A 231		20.195			1.00	28.32	AAAA
MOTA	1831	_	PHE	A 231 A 231		21.376		65.888	1.00	28.97	AAAA
ATOM	1832	CZ	PRE DHE	A 231		21.397			_	28.81	AAAA
MOTA	1833 1834	C	PHE	A 231		17.559				28.25	AÁAA AAAA
MOTA MOTA	1835		PHE	A 231		17.999			_	0 27.97 0 27.93	AAAA
MOTA	1836		LEU	A 232		17.691				0 27.93	AAAA
ATOM	1837		LEU	A 232		18.425				0 28.16	AAAA
MOTA	1838		LEU	A 232		18.523	1 37.234 38.379			0 27.96	AAAA
ATOM	1839		LEU	A 232		19.220 19.203			7 1.0	0 27.57	AAAA
ATOM	1840		LEU	A 232		20.639			7 1.0	0 27.76	AAAA
ATOM		_	<u>الحال ک</u> ا رده ا	A 232 A 232		17.81	34.85	1 71.340	0 1.0	0 27.95	AAAA
ATOM			150	A 232		18.52		1 71.94		0 27.92	AAAA
MOTA			PHE	A 233		16.49	5 34.75	8 71.29		0 28.81	AAAA AAAA
ATOM			PHE	A 233		15.78			_	0 30.27 0 31.51	AAAA
MOTA MOTA			PHE	E A 233		14.27				0 32.38	AAAA
ATOM	4045	CG	PHE	E A 233		13.46				0 33.66	AAAA
ATOM		3 CD	1 PHE	E A 233		13.25	7 32.59	, ,,,,,,,			•
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		CD3	PHE A	222	1:	2.928	31.741	71.467	1.00		AAAA
MOTA	1849 1850	CE1	PHE A	233		2.518	31.537	74.201	1.00		AAAA
ATOM	1851	CE2	PHE A	233		2.193	30.677	71.975	1.00	34.21	AAAA
MOTA MOTA	1852	CZ	PHE A	233	1	1.986	30.572	73.344	1.00	35.23	AAAA
ATOM	1853		PHE A		1	6.219	32.301	71.483		30.55	AAAA AAAA
ATOM -	1854		PHE A		_	6.438	31.391	72.280		30.65	AAAA AAAA
ATOM	1855	N .	ALA A	234		6.317	32.151	70.165		30.21 28.97	AAAA
ATOM	1856	CA .	ALA A	234		6.698	30.892	69.549	1.00	30.40	AAAA
MOTA	1857	CB .	ALA A	234	_	6.398	30.942	68.065 69.761		28.27	AAAA
MOTA	1858	С	ALA A	234		8.169	30.571	69.830		26.69	AAAA
MOTA	1859	0	ALA A	234		8.564	29.401 31.614	69.855		27.56	AAAA
MOTA	1860		LEU A	.235		8.978 0.402	31.614	70.055		29.17	AAAA
MOTA	1861		LEU A			1.126	32.767	69.989		29.04	AAAA
MOTA	1862		LEU A LEU A			2.527	32.757	69.378	1.00	28.54	AAAA
MOTA	1863	CG CD1	LEU A	235		3.350	33.837	70.058		27.05	- AAAA
MOTA	1864	CDI	LEU A	235		3.182	31.408	69.558		27.21	AAAA
MOTA	1865 1866	CDZ	LEU A	235		0.637	30.799	71.429		30.99	AAAA
MOTA	1867	ō	LEU A	235	2	1.159	29.697	71.547		31.65	AAAA ·
MOTA MOTA	1868	N	GLU A		2	0.242	31.514	72.471		31.88	AAAA AAAA
ATOM	1869	CA	GLU A	236		0.409	31.042	73.838		32.99 34.63	AAAA
ATOM	1870	CB	GLU A			9.689	31.990	74.790		36.79	AAAA
ATOM	1871	CG	GLU A			9.980	33.449	74.531 75.294		38.99	AAAA
ATOM	1872	CD	GLU A			9.044	34.360 34.303	75.070		39.03	AAAA
MOTA	1873	OE1	GLU A	236		L7.803 L9.559	35.132	76.126		41.56	AAAA
MOTA	1874	OE2	GLU A			L9.339	29.656	73.982	1.00	32.94	AAAA
MOTA	1875	C	GLU A			20.379	28.753	74.595	1.00	31.76	AAAA
MOTA	1876	0	GLU A	230		18.631	29.503	73.399		32.83	AAAA
MOTA	1877 1878	N CA	LYS A	237		17.906	28.256	73.471	1.00	33.59	AAAA
MOTA	1879	CB	LYS A	237		16.504	28.506	72.942	1.00	35.00	AAAA
MOTA MOTA	1880	CG	LYS A	237		15.516	27.436	73.213		36.69	AAAA AAAA
ATOM	1881	CD	LYS A			14.310	28.008	73.940	1.00	38.53	AAAA
ATOM	1882	CE	LYS A	237		14.636	28.331	75.392	1.00	39.27 39.42	AAAA
ATOM	1883	NZ	LYS A			13.398	28.531	76.204 72.707	1.00	33.14	AAAA
ATOM	1884	С	LYS A	237		18.619	27.129 26.051	73.260	1.00	33.29	AAA
ATOM	1885	0	LYS A	237		18.850 18.985	27.374	71.452		32.13	AAAA
MOTA	1886	И	SER A	3 238		19.671	26.345	70.685		31.25	AAAA
MOTA	1887	CA	SER A	A 238 A 238		19.740	26.717	69.194		30.52	AAAA
MOTA	1888	CB OG	SER A	A 238		20.544	27.851	68.970		29.95	AAAA
MOTA	1889 1890	C	SER A	A 238		21.075	26.064	71.236	1.00		AAAA
MOTA	1891		SER A	A 238		21.556	24.929	71.169	1.00	30.06	AAAA AAAA
MOTA MOTA	1892	N	LEU A	A 239		21.740	27.077		1.00	31.71	AAAA
MOTA	1893	CA	LEU A	A 239		23.070		72.351			AAAA
ATOM	1894	CB	LEU A	A 239		23.698		72.900 71.977	1.00	31.25	AAAA
ATOM	1895	CG	LEU A	A 239		23.988	29.300 30.414			29.05	AAAA
MOTA	1896	CD1	LEU	A 239		24.589				29.36	AAAA
MOTA	1897		LEU	A 239		24.919 22.933				35.41	AAAA
MOTA	1898	C		A 239 A 239		23.812			1.00	0 36.25	AAAA
MOTA	1899	0	CLU	A 240		21.816			1.0	0 37.34	AAAA
MOTA	1900	N CA	GLU	A 240		21.594			1.0	0 39.39	AAAA
MOTA	1901 1902	CB		A 240		20.281			_	0 41.90	AAAA AA AA
MOTA	1902	CG	GLU	A 240		20.040	24.610			0 45.52	AAAA
MOTA	1904	CD	GLU	A 240		19.665	25.552		_	0 47.80	AAAA
MOTA MOTA	1905	OEI	GLU	A 240		18.670			1.0	0 49.70 0 48.04	AAAA
MOTA	1906		GLU .	A 240		20.364				0 48.04	AAAA
MOTA	1907		GLU	A 240		21.583			_	0 37.85	
MOTA	1908		GLU	A 240		22.224				0 37.66	
ATOM	1909		ILE	A 241		20.847	7 23.293 L 21.95			0 40.81	
ATOM	1910		ILE	A 241		20.75	21.99			0 41.10	Алал
ATOM	1911		ILE	A 241		19.91			7 1.0	0 40.88	AAAA
MOTA	1912		2 ILE	A 241		18.50			_	0 41.45	, AAAA
MOTA	1913		I ILE.	A 241		17.64				0 41.14	
MOTA	1914	CD:	1 112	A 241		1,.04		•			•

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		041	22.159	21.424	72.893	1.00 41.66	AAAA
MOTA	1915 C	ILE A 241	22.445		73.045	1.00 42.10	AAAA
MOTA	1916 0	ILE A 241 VAL A 242	23.026			1.00 41.42	AAAA
MOTA	1917 N	VAL A 242 VAL A 242	24.394	21.977	72.076	1.00 41.23	AAAA
ATOM	1918 CA	VAL A 242	25.089		71.351	1.00 40.40	AAAA
MOTA	1919 CB	VAL A 242 VAL A 242	26.556	22.850	· ·	1.00 39.25	AAAA
MOTA		VAL A 242	24.438	23.384	70.004	1.00 39.79	AAAA
MOTA		VAL A 242	25.228	21.604		1.00 42.67	AAAA
ATOM	1922 C 1923 O	VAL A 242	25.882	20.562	-	1.00 41.83	AAAA
MOTA		LYS A 243	25.198	22.456		1.00 44.41	AAAA
ATOM	1924 N 1925 CA	LYS A 243	25.972	22.215	75.523	1.00 46.51	AAAA AAAA
ATOM	1925 CR	LYS A 243	25.797	23.363	76.522	1.00 47.29	AAAA
MOTA	1927 CG	LYS A 243	26.820	23.312	77.564	1.00 48.40	AAAA
MOTA MOTA	1928 CD	LYS A 243	26.479	24.248	78.823	1.00 48.88 1.00 49.62	AAAA
ATOM	1929 CE	LYS A 243	26.355	25.691	78.380	1.00 49.82	AAAA
ATOM	1930 NZ	LYS A 243	25.926	26.576	79.505	1.00 47.59	AAAA
MOTA	1931 C	LYS A 243	25.639	20.891	76.209 76.711	1.00 47.33	AAAA
ATOM	1932 0	LYS A 243	26.537	20.216	76.237	1.00 48.86	AAAA
ATOM	1933 N	GLU A 244	24.362	20.517 19.262	76.237	1.00 50.82	AAAA
MOTA	1934 CA	GLU A 244	23.957	19.202	77.103	1.00 52.08	AAAA
ATOM	1935 CB	GLU A 244	22.432	20.405	77.829	1.00 53.82	AAAA
ATOM	1936 CG		21.818 20.359	20.174	78.230	1.00 54.49	AAAA
ATOM	1937 CD	GLU A 244	19.666	21.158	78.595	1.00 55.15	AAAA
MOTA	1938 OE	1 GLU A 244	19.912	19.006	78.200	1.00 54.98	AAAA
MOTA	_	2 GLU A 244 GLU A 244	24.338	18.046	76.033	1.00 51.06	AAAA
MOTA	1940 C	GLU A 244	24.206	16.905	76.477	1.00 51.68	AAAA
MOTA	1941 O 1942 N	VAL A 245	24.810	18.292	74.820	1.00 51.12	AAAA
MOTA	1942 N 1943 CA	- ~ ~ ~	25.149	17.212	73.904	1.00 50.08	AAAA AAAA
MOTA	1944 CE		24.217	17.263	72.677	1.00 50.22	AAAA
ATOM ATOM	1945 CC	1 VAL A 245	24.615	16.217	71.651	1.00 51.07 1.00 50.79	AAAA
ATOM	1946 CC	2 VAL A 245	22.794	17.049	73.118	1.00 49.43	AAAA
ATOM	1947 C	VAL A 245	26.578	17.254	73.397	1.00 48.65	AAAA
ATOM	1948 0	VAL A 245	27.101	16.250	72.917 73.522	1.00 48.65	AAAA
ATOM	1949 N	PHE A 246	27.220	18.408 18.552	72.982	1.00 47.97	AAAA
MOTA	1950 C	A PHE A 246	28.556	19.212	71.607	1.00 46.45	AAAA
ATOM	1951 CI		28.420	18.932	70.671	1.00 45.35	AAAA
MOTA	1952 C	3 PHE A 246	29.553 29.841	17.629	70.280	1.00 44.13	AAAA
ATOM		D1 PHE A 246	30.291	19.972	70.124	1:00 44.40	AAAA
MOTA		D2 PHE A 246			69.356	1.00 43.95	AAAA
MOTA		E1 PHE A 246 E2 PHE A 246			69.197	1.00 43.47	AAAA
MOTA					68.811	1.00 44.05	AAAA AAAA
MOTA				19.383	73.860	1.00 48.60	AAAA
MOTA	1958 C 1959 O		29.132	20.501	74.239		AAAA
MOTA	1960 N	^ ^ ^ ^	30.647	18.834	74.198		AAAA
ATOM .		A GLU A 247	31.644		74.977	01	AAAA
ATOM		B GLU A 247	32.174				AAAA
MOTA		G GLU A 247	31.257	18.659			AAAA
MOTA	1964 C	D GLU A 247	29.986	17.845			AAAA
ATOM	1965 0	E1 GLU A 247	29.100	18.315 16.725			AAAA
ATOM	1966 C	E2 GLU A 247	29.877				AAAA
ATOM	1967 C		32.807 33.742				AAAA
MOTA		040				1.00 46.25	AAAA
MOTA		0.40				1.00 46.49	AAAA
MOTA		D PRO A 248				1.00 45.44	AAAA
MOTA						1.00 45.57	AAAA
ATOM					1 72.178	1.00 46.28	AAAA
MOTA			_		4 72.88	1.00 44.29	AAAA
ATOM		^4/		1 22.370	73.94		AAAA AAAA
ATOM		PRO A 248	·	0 21.36			AAAA
ATOM		CA GLU A 24	37.52	2 21.52	6 72.34		AAAA
ATOM		CB GLU A 24	38.34	4 20.46			AAAA
ATOM		CG GLU A 24	9 37.96				AAAA
ATOM ATOM		CD GLU A 24	9 38.82	5 18.00	7 71.24	1 1.00 40.36	
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· movi	1981	OFI	GLU A	249	38.871	18.017	69.996	1.00 41.55	AAAA
MOTA MOTA	1982	OE2	GLU A	249	39.462	17.187	71.926	1.00 42.49	AAAA
ATOM	1983		GLU A		37.840	22.873	71.718	1.00 38.81	AAAA
MOTA	1984		GLU A		38.715	23.617	72.181	1.00 38.27	AAAA
ATOM	1985		VAL A		37.109	23.160	70.644	1.00 36.60	AAAA
ATOM	1986	CA	VAL A	3 250	37.242	24.402	69.890	1.00 34.20	AAAA
MOTA	1987	СВ	VAL A	A 250	38.379	24.321	68.862	1.00 33.73	AAAA
ATOM	1988	CG1	VAL A	A 250	38.085	23.209	67.864	1.00 33.26	AAAA
ATOM	1989		VAL A		38.546	25.678	68.153	1.00 33.75	AAAA
ATOM	1990	C	VAL A	A 250	35.945	24.617	69.130	1.00 31.98	AAAA
MOTA	1991	0		A 250	35.205	23.658	68.904	1.00 32.36	AAAA
ATOM	1992	N		A 251	35.657	25.863	68.760	1.00 28.65	AAAA AAAA
ATOM	1993	CA		A 251	34.449	26150	67.991	1.00 26.49 1.00 24.32	AAAA
ATOM	1994	CB		A 251	33.241	26.442	68.906	1.00 24.32	AAAA
ATOM	1995	CG	TYR A	A 251	33.193	27.853	69.465	1.00 22.30	AAAA
MOTA	1996			A 251	32.771	28.931	68.668 69.151	1.00 22.21	AAAA
MOTA	1997	CE1		A 251	32.791	30.234	70.771	1.00 21.23	AAAA
MOTA	1998			A 251	33.628	28.124 29.425	71.265	1.00 20.80	AAAA
MOTA	1999	CE2		A 251	33.651 33.237	30.475	70.449	1.00 20.77	AAAA
MOTA	2000	CZ		A 251		31.768	70.913	1.00 21.41	AAAA
MOTA	2001	OH		A 251	33.309 34.691	27.345	67.092	1.00 24.59	AAAA
ATOM	2002	C	TYR .	A 251	35.504	28.216	67.410	1.00 25.87	AAAA
MOTA	2003	0		A 251	33.984	27.374	65.970	1.00 22.49	AAAA
MOTA	2004	N		A 252 A 252	34.082	28.482	65.045	1.00 20.96	AAAA
MOTA	2005	CA	LEU .	A 252	34.523	28.018	63.657	1.00 21.31	AAAA
MOTA	2006	CB CG		A 252	35.940	27.472	63.556	1.00 21.03	AAAA
MOTA	2007 2008			A 252	35.947	26.028	63.977	1.00 22.16	AAAA
MOTA	2008	CD3	LFII	A 252	36.440	27.594	62.143	1.00 22.13	AAAA
MOTA MOTA	2010	C	LEU	A 252	32.731	29.159	64.959	1.00 19.60	AAAA
ATOM	2011	ō		A 252	31.689	28.523	65.070	1.00 19.95	AAAA
MOTA	2012	Ŋ		A 253	32.748	30.461	64.756	1.00 17.95	AAAA
ATOM	2013	CA		A 253	31.521	31.222	64.675	1.00 17.33	AAAA
ATOM	2014	СВ		A 253	31.441	32.142	65.900	1.00 16.31	AAAA
ATOM	2015	CG		A 253	30.266	33.070	66.153	1.00 15.81	AAAA AAAA
ATOM	2016	CD1	LEU	A 253	28.990	32.267	66.377	1.00 14.74	AAAA
ATOM	2017	CD2	LEU	A 253	30.602	33.925	67.368	1.00 15.83 1.00 16.60	AAAA
ATOM	2018	С		A 253	31.564	32.035	63.386	1.00 16.40	AAAA
MOTA	2019	0		A 253	32.548	32.722	63.132 62.557	1.00 15.88	AAAA
MOTA	2020	N		A 254	30.526	31.936 32.716	61.328	1.00 16.27	AAAA
MOTA	2021	CA	GLN	A 254	30.507	31.881	60.121	1.00 15.88	AAAA
MOTA	2022	CB		A 254	30.045 28.587	32.048	59.734	1.00 18.52	AAAA
ATOM	2023	CG		A 254 A 254	28.380	32.935	58.519	1.00 17.54	AAAA
MOTA	2024	CD		A 254	28.714	32.572	57.391	1.00 15.89	AAAA
ATOM	2025	OE1	CIN	A 254	27.828	34.103	58.750	1 00 18.49	AAAA
MOTA	2026 2027	C	GLN	A 254	29.527	33.825	61.650	1 00 16.91	AAAA
MOTA	2028	Ö	GLN	A 254	28.450	33.571	62.198	1 00 17.41	AAAA
MOTA	2029	N		A 255	29.911	35.053	61.319	1.00 16.68	AAAA
MOTA MOTA	2030	CA	LEU	A 255	29.102	36.215	61.619	1.00 16.42	AAAA
ATOM	2031	CB	LEU	A 255	29.861	37.080		1.00 14.93	AAAA
MOTA	2032	CG	LEU	A 255	30.269	36.301		1.00 13.90	AAAA
ATOM	2033	CD1	LEU	A 255	31.494	36.924	64.515	1.00 12.24	AAAA AAAA
MOTA	2034	CD2	LEU	λ 255	29.083	36.202		1.00 12.80	AAAA
MOTA	2035	С	LEU	A 255	28.699	37.048		1.00 18.32	AAAA
MOTA	2036	0	LEU	A 255	29.170	38.177			AAAA
MOTA	2037	N	GLY	A 256	27:813	36.482			AAAA
ATOM	2038	CA	GLY	A 256	27.322	37.188			AAAA
ATOM	2039	С		A 256	26.422	38.302			AAAA
MOTA	2040	0		A 256	25.642	30.096			AAAA
ATOM	2041	N	THR	A 257	26.528	39.485			AAAA
ATOM	2042	CA		A 257	25.721	40.622 41.968			AAAA
ATOM	2043	CB		A 257	26.460 26.729				AAAA
MOTA	2044		THR	A 257	27.780				AAAA
MOTA	2045	_		A 257 A 257	24.438				AAAA
MOTA	2046	С	THK.	M 43/	24.430				•

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			23.6	:02 41	1.672	58.048 1	00 25.84	AAAA
MOTA	2047 0	THR A 257	24.1			57.154	00 25.18	AAAA
ATOM	2048 N	ASP A 258	22.9		9.753	56.379	1.00 26.18	AAAA
MOTA	2049 CA	ASP A 258	22.9			55.149	1.00 25.52	AAAA
MOTA	2050 CE		23.2		7.392	55.494	1.00 26.33	AAAA
MOTA	2051 CC	ASP A 258	21.		9:574		1.00 26.74	AAAA
MOTA	2052 C	ASP A 258	20.		9.823	56.643	1.00 26.57	AAAA
ATCM	2053. 0		23.	-	7.029		1.00 26.85	AAAA
MOTA		050	23.				1.00 24.06	AAAA AAAA
MOTA		0 - 0	21.	727 3			1.00 26.95	AAAA
MOTA			. 22.				1.00 27.34	AAAA
ATOM	2057 CI 2058 C.	050	20.	467 3			1.00 27.05	AAAA
MOTA	2059 C		20.		8.186		1.00 26.38 1.00 27.84	AAAA
MOTA	2060 C	050	22.		8.718	• -	1.00 27.32	AAAA
ATOM ATOM	2061 C				0.365		1.00 27.32	AAAA
ATOM	2062 0	PRO A 259	18.		10.510	59.871- 59.452	1.00 26.97	AAAA
ATOM	2063 N	LEU A 260			11.383	59.452	1.00 26.74	AAAA
ATOM	2064 C	A LEU A 260			12.763	59.732	1.00 27.21	AAAA
ATOM	2065 C	B LEU A 260			13.680 13.465	60.709	1.00 27.01	AAAA
ATOM	2066 C	G LEU A 260			44.380	60.408	1.00 25.51	AAAA
ATOM	2067 C	D1 LEU A 260			43.718	62.112	1.00 27.39	AAAA
ATOM		D2 LEU A 260			43.351	58.865	1.00 26.47	AAAA
ATOM	2069 C	LEU A 260			43.137	57.649	1.00 26.72	AAAA
MOTA	2070 C	LEU A 260			44.126	59.494	1.00 26.32	AAAA
MOTA	2071	0.51			44.808	58.846	1.00 27.20	AAAA
MOTA		A LEU A 261 B LEU A 261			45.885	59.780	1.00 28.71	AAAA
MOTA				.644	46.789	59.190	1.00 29.24	AAAA AAAA
MOTA		CD1 LEU A 261			45.954	58.883	1.00 29.44	AAAA
ATOM	2075 (2076 (D2 LEU A 261		.284	47.906	60.162	1.00 29.72	AAAA
MOTA	-	LEU A 261	17		45.454	57.473	1.00 27.90 1.00 28.21	AAAA
MOTA		LEU A 261	16		45.294	56.577	1.00 28.21	AAAA
ATOM ATOM		N GLU A 262	18		46.202	57.310	1.00 26.92	AAAA
ATOM		CA GLU A 262	. 18		46.877	56.043	1.00 25.85	AAAA
ATOM		CB GLU A 262	19	.949	47.955	56.241 57.117	1.00 25.36	AAAA
ATOM	-	CG GLU A 262		.549	49.119	58.580	1.00 25.78	AAAA
ATOM	2083	CD GLU A 262		.552	48.787	58.938	1.00 24.64	AAAA
ATOM	2084	OE1 GLU A 262		.859 .255	49.694	59.381	1.00 25.82	AAAA
ATOM		OE2 GLU A 262		1.346	45.995	54.882	1.00 28.79	AAAA
MOTA		C GLU A 262		354	46.439	53.724	1.00 28.70	AAAA
ATOM	2087	O GLU A 262 N ASP A 263		743	44.758	55.179	1.00 29.57	AAAA
MOTA	2088	0.00		230	43.853	54.145	1.00 28.99	AAAA AAAA
MOTA	2089	^ ^ -		1.160	42.802	54.760	1.00 27.89	AAAA
MOTA	2090	CB ASP A 263	•	1.986	42.062		1.00 29.02	AAAA
MOTA	2091 2092	OD1 ASP A 26	3 2:	3.194	41.863		1.00 28.06 1.00 28.80	AAAA
MOTA	2092	OD2 ASP A 26	3 4.	1.438	41.663			AAAA
MOTA MOTA	2094	C ASP A 26	3 1:	9.066	43.197			AAAA
MOTA	2095	0 ASP A 26	3 1	8.258	42.510			AAAA
ATOM		N TYR A 26	4 1	9.002	43.416			AAAA
ATOM		CA TYR A 26	-	7.925	42.888			AAAA
MOTA		CB TYR A 26	-	7.913 7.627	45.038		1.00 38.21	AAAA
MOTA		CG TYR A 26	-	8.664	45.968		1.00 39.87	AAAA
ATOM	2100	CD1 TYR A 26		8.409	47.335		1.00 41.74	AAAA
ATOM	2101	CE1 TYR A 26	_	6.316	45.511		1.00 40.10	AAAA
ATOM		CD2 TYR A 26	_	6.044	46.87		1.00 41.50	AAAA
ATOM		CE2 TYR A 26	-	7.095	47.786	6 50.170	1.00 42.75	AAAA AAAA
ATOM			-	6.838	49.14	7 50.23		AAAA
MOTA			_	7.897	41.38	5 51.13		AAAA
ATOM		O TYR A 26	_	6.819	40.81	6 50.96		AAAA
ATOM		H LEU A 26		9.064	40.74			AAAA
ATON		CA LEU A 26	i5]	19.122	39.28			AAAA
ATON		CB LEU A 26	55	20.525				AAAA
ATO		CG LEU A 26	55	20.808				AAAA
ATO! ATO!		CD1 LEU A 2	55	22.213	38.58	0 40.//		•
A. O.	·	•						

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				C E	19.803	38.166	48.361	1.00 34.62	AAAA
ATOM	2113		LEU A 2		18.693	38.540	52.296	1.00 30.33	AAAA
MOTA	2114	•	LEU A 2		19.024	37.375	52.484	1.00 30.30	AAAA
ATOM	2115		LEU A 2		17.945	39.230	53.147	1.00 29.23	AAAA
ATOM	2116		SER A 2		17.434	38.649	54.371	1.00 29.72	AAAA
MOTA	2117		SER A 2		18.398	38.894	55.519	1.00 32.09	AAAA
ATOM -	2118	CB	SER A 2	66		38.810	56.771	1.00 33.43	AAAA
MOTA	2119	oG	SER A 2		17.728	39.290	54.698	1.00 28.71	AAAA
MOTA	2120	С	SER A 2	66	16.115	40.473	54.444	1.00 29.67	AAAA
MOTA	2121	0	SER A 2		15.924	38.517	55.276	1.00 27.82	AAAA
MOTA	2122	N	LYS A 2		15.209		55.654	1.00 27.56	AAAA
ATOM	2123	CA	LYS A 2	267	13.908	39.045 38.076	55.222	1.00 28.75	AAAA
MOTA	2124	CB	LYS A 2	267	12.821		53.718	1.00 29.67	AAAA
MOTA	2125	CG	LYS A 2		12.733	37.922 39.223	53.718	1.00 30.13	AAAA
MOTA	2126	CD	LYS A 2	267	12.343	39.223	51.546	1.00 31.86	AAAA
MOTA	2127	CE	LYS A 2	26 /	12.303	40.252	50.843	1.00 33.92	- AAAA
MOTA	2128	NZ	LYS A	267	11.796		57.152	1.00 27.18	AAAA
MOTA	2129	С	LYS A		13.800	39.327 39.591	57.665	1.00 27.18	AAAA
MOTA	2130	0	LYS A		12.707 14.944	39.267	57.836	1.00 26.12	AAAA
MOTA	2131	N	PHE A		15.048	39.532	59.271	1.00 25.72	AAAA
ATOM	2132	CA	PHE A		16.272	38.830	59.856	1.00 24.94	AAAA
MOTA	2133	CB	PHE A		16.272	37.334	59.896	1.00 25.07	AAAA
MOTA	2134	CG	PHE A		17.271	36.565	60.267	1.00 24.56	AAAA
ATOM	2135	CD1	PHE A	268	14.955	36.687	59.629	1.00 23.76	AAAA
ATOM	2136	CD2	PHE A	200	17.174	35.169	60.384	1.00 23.71	AAAA
ATOM	2137	CEI	PHE A	200	14.850	35.303	59.739	1.00 23.86	AAAA
MOTA	2138		PHE A		15.966	34.542	60.121	1.00 23.68	AAAA
MOTA	2139	CZ	PHE A	200 260	15.190	41.030	59.513	1.00 25.77	AAAA
MOTA	2140	C	PHE A		15.811	41.734	58.726	1.00 25.81	AAAA
MOTA	2141	0	ASN A	200	14.606	41.524	60.595	1.00 26.02	AAAA
MOTA	2142	N	ASN A	203	14.718	42.943	60.890	1.00 26.58	AAAA
MOTA	2143	CA	ASN A		13.330	43.584	61.058	1.00 25.47	AAAA
MOTA	2144	CB	ASN A		12.379	43.252.	59.906	1.00 25.37	AAAA
MOTA	2145	CG	ASN A		12.761	43.260	58.734	1.00 23.82	AAAA
MOTA	2146	MD3	ASN A	269	11.123	42.985	60.245	1.00 24.03	AAAA
MOTA	2147	C	ASN A	269	15.540	43.112	62.169	1.00 26.82	AAAA
MOTA	2148	Ö	ASN A		15.089	43.715	63.150	1.00 27.98	AAAA
MOTA	2149 2150	N	LEU A	270	16.744	42.559	62.149	1.00 26.07	AAAA
MOTA	2151	CA	LEU A	270	17.639	42.642	63.289	1.00 25.97	AAAA
ATOM	2152	CB	LEU A	270	18.634	41.479	63.265	1.00 23.76	
MOTA MOTA	2153	CG	LEU A		18.048	40.070	63.225	1.00 23.36	AAAA
ATOM	2154		LEU A		19.115	39.090	63.710	1.00 21.90	AAAA
MOTA	2155	CD2	LEU A	270	16.824	39.971	64.122	1.00 22.05	AAAA
ATOM	2156	Ç	LEU A	270	18.420	43.961	63.360	1.00 27.13	AAAA
ATOM	2157	ō	LEU A		18.475	44.750	62.399	1.00 25.99	AAAA AAAA
ATOM	2158	N	SER A	271	19.038	44.176	64.517	1.00 27.97	AAAA
ATOM	2159	CA	SER A	271	19.832	45.370	64.767	1.00 27.95	AAAA
ATOM	2160	CB	SER A	271	19.235	46.137	65.943	1.00 27.32	AAAA
ATOM	2161	OG	SER A	271	19.184	45.297	67.089	1.00 27.90	AAAA
ATOM	2162	С	SER A	271	21.276	44.987	65.084	1.00 28.15	AAAA
ATOM	2163	0	SER A	271	21.574	43.832	65.401	1.00 26.99	AAAA
MOTA	2164	N	ASN A	272	22.156	45.980	64.979	1.00 28.96 1.00 29.54	AAAA
ATOM	2165	CA	ASN A	272	23.590	45.861	65.266	1.00 29.34	AAAA
ATOM	2166	CB	ASN A	272	24.247	47.243	65.223	1.00 30.30	AAAA
MOTA	2167	CG	ASN A	272	24.647	47.640		1.00 31.20	AAAA
ATOM	2168	נפס	ASN A	272	24.960	48.794	63.594	1.00 31.73	AAAA
ATOM	2169	ND2	ASN A	272	24.670	46.674		1.00 31.93	AAAA
MOTA	2170	С	ASN A	272		45.309		1.00 29.63 1.00 29.85	AAAA
MOTA	2171	0	ASN A	272	24.574	44.361			AAAA
MOTA	2172	N	VAL A	273	23.180	45.959			AAAA
ATOM	2173	CA	VAL A		23.290	45.602			AAAA
ATOM	2174	CB	VAL A	273	22.436	46.576			AAAA
MOTA	2175	CG:	VAL A	273	22.716	46.403			
MOTA	2176		VAL A	273	22.740		69.372		
ATOM	2177		VAL A	273	22.883	44.144			
ATOM	2178		VAL A	273	23.550	43.431	. <u>7</u> 0.022	1.00 31.23	. 1892,

		riguio 195				
		74 21.785	13.706 6	8.659 1.	.00 30.25	AAAA
MOTA	2179 N ALA A 2			8.840 1.	.00 29.87	AAAA
MOTA	2180 CA ALA A 2			8.112 1.	.00 29.64	AAAA
MOTA	2181 CB ALA A 2			8.247 1	.00 29.35	AAAA
MOTA	2182 C ALA A 2	· ·		8.778 1	.00 29.18	AAAA
MOTA	2183 O ALA A 2 2184 N PHE A 2		41.893 6	7.127 1	.00 29.30	AAAA
MOTA				•	.00 28.91	AAAA
ATOM					.00 28.77	AAAA
MOTA	2186 CB PHE A 2 2187 CG PHE A 2	75 25.354			.00 28.08	АААА АААА
ATOM	2188 CD1 PHE A 2	25.015			.00 28.92	AAAA
MOTA	2189 CD2 PHE A 2	175 26.621			.00 29.48 .00 29.20	AAAA
ATOM ATOM	2190 CE1 PHE A 2	25.928		. –	.00 29.24	AAAA
ATOM	2191 CE2 PHE A 2	27.546		53.279 l 52.716 l	.00 28.30	AAAA
ATOM	2192 CZ PHE A 2	.,,		57.351 1	.00 27.64	AAAA
ATOM	2193 C PHE A 2	3/3		57.558 1	.00 28.65	AAAA
MOTA	2194 O PHE A			67.902 1	00 26.81	AAAA
MOTA	2195 N LEU A			68.831 1	00 27.38	AAAA
MOTA	2196 CA LEU A 2 2197 CB LEU A 2			69.353 1	00 27.53	AAAA
MOTA			44.213		.00 26.37	AAAA AAAA
MOTA	2198 CG LEU A 2 2199 CD1 LEU A 2				1.00 25.71	AAAA
MOTA	2200 CD2 LEU A	- · · ·			1.00 27.06 1.00 26.49	AAAA
MOTA MOTA	2200 CD2 DEU A	276 25.486			1.00 25.26	AAAA
MOTA	2202 O LEU A	276 27.387			1.00 23.20	AAAA
MOTA	2203 N LYS A	277 25.257		70.524 71.642	1.00 28.63	AAAA
ATOM	2204 CA LYS A	277 24.894		72.223	1.00 30.63	AAAA
ATOM	2205 CB LYS A	277 23.542 277 23.590		73.153	1.00 33.14	AAAA .
MOTA	2206 CG LYS A	4		74 268	1.00 34.94	AAAA
ATOM	2207 CD LYS A 2208 CE LYS A	- · · ·		75.029	1.00 36.17	AAAA
MOTA		- · · ·			1.00 38.64	AAAA
MOTA		- ' ' '	38.997		1.00 28.53	AAAA AAAA
ATOM	2210 C LYS A 2211 O LYS A	277 25.118	38.152		1.00 28.45 1.00 28.47	AAAA
MOTA MOTA	2212 N ALA A	278 24.466	38.681		1.00 25.47	AAAA
ATOM	2213 CA ALA A	278 24.404	37.280	69.656 68.201	1.00 26.40	AAAA
MOTA	2214 CB ALA A	278 23.941	37.181 36.754	69.820	1.00 26.63	AAAA
MOTA	2215 C ALA A	278 25.833	35.644	70.317	1.00 25.19	AAAA
MOTA	2216 O ALA A	278 26.081 279 26.764	37.616	69.427	1.00 26.50	AAAA
ATOM	2217 N PHE A 2218 CA PHE A		37.345	69.481	1.00 25.83	AAAA
MOTA			38.521	68.869	1.00 26.35	AAAA AAAA
MOTA	2219 CB PHE A 2220 CG PHE A	279 30.413	38.319	68.796	1.00 27.92	AAAA
MOTA	2221 CD1 PHE A	279 30.949	37.256	68.072	1.00 28.58 1.00 28.33	AAAA
MOTA MOTA	2222 CD2 PHE A	279 31.280	39.201	69.434 67.983	1.00 28.33	AAAA
MOTA	2223 CE1 PHE A	279 32.330		69.349	1.00 28.11	AAAA
MOTA	2224 CE2 PHE A	279 32.000	39.030 37.968	68.622	1.00 28.21	AAAA
ATOM	2225 CZ PHE A	279 33.185 279 28.665	37.118	70.901	1.00 25.47	AAAA
MOTA	2226 C PHE A		36.091	71.202	1.00 24.32	AAAA
MOTA	2227 O PHE A		38.075	71.778	1.00 25.12	AAAA
MOTA			37.944	73.147	1.00 25.05	AAAA
MOTA	1011 1		39.269	73.887	1.00 24.42	AAAA AAAA
MOTA		280 29.683	40.300	73.364	1.00 24.56 1.00 23.24	AAAA
ATOM	**** *** *** *** ***	280 30.841		73.080	1.00 23.24	AAAA
MOTA MOTA	· · · · · · ·	. 280 29.23 <i>3</i>	41.543	73.249 73.925	1.00 24.79	AAAA
ATOM	2234 C ASN A	280 28.213	36.814	74.825	1.00 24.96	AAAA
ATOM	2235 O ASN A	280 28.828		73.565	1.00 24.87	AAAA
ATOM	2236 N ILE A	281 26.998		74.220	1.00 24.80	AAAA
ATOM	2237 CA ILE	A 281 26.332 A 281 24.866		73.780	1.00 24.40	AAAA
ATOM	1 2238 CB ILE		_	74.124	1.00 25.03	AAAA
ATOM	CO1 TIE /	·		74.424	1.00 24.70	AAAA
ATOM				74.069	1.00 26.49	AAAA AAAA
ATOM	COAD C TIF	A 281 27.044	34.027	73.884	1.00 25.21	AAAA
ATON	ADAD O TIE	A 281 27.220	33.170		1.00 24.97 1.00 25.98	AAAA
ATON AOTA	2 2244 37 3787	A 282 27.440	33.866	72.620	1.00 23.30	
ATCI						

				202	28.150	32.656	72.193	1.00 25.15	~AAA
ATOM	2245	CA	VAL A	282	28.451	32.666	70.677	1.00 23.83	AAAA
MOTA	2246		VAL A			31.470	70.311	1.00 23.58	AAAA
MOTA	2247	CG1	VAL A	282	29.315	32.633	69.899	1.00 22.73	AAAA
MOTA	2248	CG2	VAL A	282	27.173		72.936	1.00 25.73	AAAA
MOTA	2249	С	VAL A	282	29.478	32.553		1.00 25.31	AAAA
ATOM	2250		VAL A		29.928	31.457	73.275	1.00 26.90	AAAA
MOTA	2251		ARG A		30.100	33.702	73.176	1.00 28.87	AAAA
MOTA	2252		ARG A		31.372	33.760	73.885		AAAA
MOTA	2253		ARG A		32.027	35.131	73.684	1.00 28.16	AAAA
ATOM	2254	CG	ARG A	283	32.364	35.440	72.240	1.00 27.22	AAAA
ATOM	2255	CD	ARG A	283	32.821	36.862	72.098	1.00 27.08	AAAA
MOTA	2256	NE	ARG A	283	34.035	37.116	72.854	1.00 26.73	AAAA
ATOM	2257	CZ	ARG A	283	34.514	38.327	73.091	1.00 26.82	
ATOM	2258		ARG A		33.873	39.384	72.626	1.00 27.36	AAAA
ATOM	2259	NH2	ARG 2	A 283	35.622	38.484	73.798	1.00 26.95	AAAA
MOTA	2260	С	ARG A	A 283	31.183	33.494	75.376	1.00 30.71	AAAA
MOTA	2261	0	ARG A	A 283	32.086	32.981	76.027	1.00 30.68	AAAA AAAA
ATOM	2262	N	GLU A	A 284	30.014	33.842	75.911	1.00 32.71	
MOTA	2263	CA		A 284	29.735	33.623	77.323	1.00 35.53	AAAA
ATOM	2264	СВ	GLU A	A 284	28.482	34.391	77.751	1.00 37.39	AAAA
MOTA	2265	CG		A 284	28.538	35.854	77.392	1.00 41.73	AAAA AAAA
ATOM	2266	CD	GLU Z	A 284	27.272	36.631	77.754	1.00 45.27	
ATOM	2267		GLU A		26.151	36.078	77.610	1.00 46.66	AAAA
ATOM	2268			A 284	27.405	37.817	78.148	1.00 46.94	AAAA
ATOM	2269	c		A 284	29.524	32.133	77.564	1.00 36.25	AAAA
ATOM	2270	ō		A 284	29.920	31.593	78.601	1.00 37.85	AAAA
ATOM	2271	N		A 285	28.916	31.464	76.591	1.00 35.24	AAAA
ATOM	2272	CA		A 285	. 28.637	30.041	76.708	1.00 33.88	AAAA
MOTA	2273	CB		A 285	27.505	29.619	75.737	1.00 33.71	AAAA
MOTA	2274		VAL	A 285	27.201	28.137	75.888	1.00 32.59	AAAA
ATOM	2275	CG2	VAL	A 285	26.254	30.457	76.001	1.00 32.77	AAAA
ATOM	2276	C	VAL	A 285	29.847	29.149	76.456	1.00 33.47	AAAA
	2277	Ö		A 285	30.140	28.262	77.257	1.00 34.23	AAAA
ATOM	2278	N		A 286	30.568	29.389	75.364	1.00 32.34	AAAA
MOTA	2279	CA		A 286	31.706	28.535	75.036	1.00 29.92	AAAA
ATOM ATOM	2280	CB		A 286	31.533	27.960	73.635	1.00 29.77	AAAA
ATOM	2281	ĊĞ		A 286	30.267	27.179	73.444	1.00 28.64	AAAA
	2282			A 286	29.152	27.772	72.863	1.00 28.75	AAAA
MOTA	2283	CD2		A 286	30.197	25.837	73.827	1.00 28.55	AAAA
MOTA MOTA	2284			A 286	27.983	27.039	72.660	1.00 29.04	AAAA
MOTA	2285	CE2	PHE	A 286	29.037	25.095	73.629	1.00 28.19	AAAA
ATOM	2286	CZ	PHE	A 286	27.929	25.694	73.045	1.00 28.73	AAAA
	2287	c		A 286	33.106	29.113	75.132	1.00 29.13	AAAA
MOTA MOTA	2288	ō		A 286	34.073	28.436	74.760	1.00 28.54	AAAA
MOTA	2289	N		A 287	33.224	30.341	75.637	1.00 28.42	AAAA
	2290	CA	GLY	A 287	34.525	30.987	75.744	1.00 27.07	AAAA
MOTA MOTA	2291	C	GLY	A 287	34.932	31.611	74.419	1.00 26.64	AAAA
ATOM	2292	ō	GLY	A 287	34.088	32.042	73.649	1.00 27.13	AAAA
	2293	N	GLU	A 288	36.227	31.665	74.146	1.00 27.20	AAAA
MOTA MOTA	2294	CA	GLU	A 288	36.719	32.238	72.900	1.00 27.52	AAAA
	2295	CB		A 288	38.073		73.108	1.00 28.18	AAAA
MOTA	2296	CG	GLU	A 288	38.036	34.177	73.959	1.00 28.88	AAAA
MOTA	2297	CD		A 288	37.329	35.330		1.00 29.58	AAAA
ATOM	2298	OE1	GLU	A 288	37.807		72.243	1.00 29.94	AAAA
MOTA		OE2	GLII	A 288	36.281		73.782	1.00 31.89	AAAA
ATOM	2299			A 288	36.877		71.843	1.00 27.44	AAAA
MOTA	2300	C	יו זם	A 288	37.169		72.162		AAAA
MOTA	2301	0		A 289	36.663			1.00 26.55	AAAA
MOTA	2302		CIV	A 289	36.795			1.00 25.25	AAAA
MOTA	2303	CA		A 289	37.285			1.00 24.55	AAAA
MOTA	2304			A 289	37.635			1.00 24.40	AAAA
ATOM	2305			A 299	37.320			1.00 24.04	AAAA
ATOM	2306				37.756			1.00 23.76	# AAAA
MOTA	2307			A 290	38.288			1.00 24.94	AAAA
ATOM	2308			A 290	38.83				AAAA
MOTA	2309			A 290	39.37				AAAA
MOTA	2310	CG	Z VAL	A 290	37.37	. 23.300		. =	•

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		_ ,,	מר א זמי	0	36.536	32	1.122	65.277	1.00 2	23.90	AAAA
ATOM .	2311		AL A 29	0	35.497	31	.502	65.100	1.00 2		AAAA
MOTA			AL A 29 ÝR A 29		36.662		3.415	64.976	1.00 2		AAAA
MOTA			YR A 29		35.544		.211	64.446	1.00 2		AAAA
MOTA		CA I	YR A 29	13	35.472		5.540	65.193	1.00 2	20.57	AAAA
MOTA		CB I	YR A 29	11	35.511		346	66.677	1.00	19.87	AAAA
MOTA		CG I	YR A 29	13	36.596		5.782	67.432	1.00		AAAA
ATOM			YR A 25		36.677		5.513	68.793	1.00		AAAA
MOTA			TYR A 29		34.509		4:647	67.318	1.00		AAAA
MOTA			ryr A 29		34.579		4.372	68.675	1.00		AAAA
MOTA		-	ryr A 29		35.661		4.800	69.403	1.00		AAAA
MOTA			TYR A 25		35.737		4.469	70.730	1.00	23.75	AAAA
MOTA			TYR A 25		35.607		4.483	62.946	1.00		AAAA
MOTA			TYR A 29		36.573		5.077	62.451	1.00		AAAA
MOTA			LEU A 29		34.557		4.084	62.231	1.00	20.92	AAAA AAAA
MOTA	20	CA I	LEU A 2	92	34.518	в 3	4.260	60.779-	1.00	20.92	AAAA
MOTA			LEU A 2		34.235		2.916	60.080	1.00	19.93	AAAA
ATOM	2328	CG 1	LEU A 2	92	35.104		1.688	60.399	1.00	17.31	AAAA
ATOM	2329	CD1	LEU A 2	92	34.68	-	0.515	59.528	1.00	16.05	AAAA
ATOM ATOM	2330	CD2	LEU A 2	92	36.55	_	2.000	60.163	1.00	18.07 21.12	AAAA
ATOM	2331	C	LEU A 2	92	33.51		5.288	60.283	1.00	20.70	AAAA
ATOM	2332		LEU A 2		32.65	_	5.741	61.020	1.00	21.74	AAAA
ATOM	2333	N	GLY A 2	93	33.66	-	5.660	59.017	1.00	21.48	AAAA
ATOM	2334	CA	GLY A 2	93	32.75	_	6.612	58.410 57.770	1.00	21.65	AAAA
ATOM	2335	С	GLY A 2	93	31.61		5.856	58.235	1 00	22.25	AAAA
ATOM	2336	0	GLY A 2	93	31.23		4.790	56.691		22.66	AAAA
ATOM	2337	N	GLY A 2	94	31.06		6.392	56.034		23.61	AAAA
ATOM	2338	CA	GLY A 2	94	29.95		35.714	55.146	1 00	24.56	AAAA
ATOM	2339	С	GLY A 2	94	29.18		36.653 37.727	54.790	1.00	25.54	AAAA
ATOM -	2340	0	GLY A 2	94	29.67	-	36.265	54.794	1.00	24.06	AAAA
ATOM	2341	N	GLY A 2	95	27.95 27.13	_	37.093	53.927		22.78	AAAA
MOTA	2342	CA	GLY A 2	295	26.90	-	38.479	54.483	1.00	23.11	AAAA
MOTA	2343	C	GLY A 2	295	26.87		38.676	55.696	1.00	22.87	AAAA
MOTA	2344	0	GLY A 2	(9) 106	26.73		39.442	53.584	1.00	22.78	AAAA
MOTA	2345	И	GLY A 2	106	26.49	-	40.813	53.993	1.00	23.44	AAAA
MOTA	2346	CA	GLY A 2	196	26.47		41.618	52.718	1.00	23.72	AAAA
MOTA	2347	C	GLY A 2	296	27.47		41.661	52.004	1.00	23.73	AAAA
MOTA	2348	N	TYR A	297	25.35		42.280	52.425	_	23.41	AAAA
MOTA	2349	CA	TYR A	297	25.28		42.991	51.163		22.71	AAAA AAAA
MOTA	2350 2351	CB	TYR A	297	24.25	52	42.294	50.296		21.55	AAAA
MOTA	2352	CG	TYR A	297	24.49	96	40.809	50.317		21.93	AAAA
MOTA	2353	CD1	TYR A	297	24.03		40.016			20.95	AAAA
ATOM	2354	CE1	TYR A	297	24.4		38.678			21.59	AAAA
MOTA MOTA	2355	CD2	TYR A	297	25.3	20	40.217	49.358		21.71	AAAA
MOTA	2356	CE2	TYR A	297	25.6		38.900	49.451		22.18	AAAA
MOTA	2357	CZ	TYR A	297	25.2		38.127			21.35	AAAA
MOTA	2358	OH	TYR A	297	25.7		36.841			22.90	AAAA
MOTA	2359	С	TYR A	297	25.0	42	44.485			23.17	AAAA
ATOM	2360	0	TYR A	297	25.1	06	45.172			22.47	AAAA
ATOM	2361	N	HIS A	298	24.7		44.989			0 24.27	AAAA
ATOM	2362	CA	HIS A	298	24.5		46.726			0 23.17	AAAA
MOTA	2363	CB	HIS A	298	23.4		48.166			0 23.20	AAAA
ATOM	2364	CG	HIS A	298	23.0		49.201			0 24.25	AAAA
ATOM	2365	CD2	HIS A	298	23.5 22.1	00	48.708		0 1.0	0 23.14	AAAA
ATOM		ND1	HIS A	298			50.01			0 23.31	AAAA
ATOM	2367	CE1	HIS A	298 208	22.1 22.9		50.342		4 1.0	0 23.62	AAAA
ATOM	2368		HIS A	298 200	25.8		46.97	_	6 1.0	0 25.17	AAAA
MOTA	2369	C	HIS A	700	26.2		46.68	-	9 1.0	0 24.47	AAAA
ATOM	2370		HIS A	230 200	26.5		47.81		6 1.0	0 26.37	AAAA
ATOM	2371	Ŋ	PRO A	200	26.1		48.37		6 1.0	0 27.01	AAAA
MOTA	2372		PRO A PRO A	200	27.8		48.39		2 1.0	0 27.31	AAAA
ATOM			PRO A	233	28.1		49.38		0 1.0	0 27.04	AAAA
ATOM			PRO A	299	26.	743	49.76		0 1.0	0 27.57	AAAA
ATOM	/	_	PRO A	299	27.8		49.03		9 1.0	0 27.77	AAAA
ATCM	2376	С	FRUA					•			•
•											

				_			28.755	,	18.826	54.939	1	1.00	28	. 04		AAAA
MOTA	2377	0	PRO	Α	299				19.794	54.452		1.00	27	.04		AAAA
MOTA	2378	N	TYR	Α	300		26.769			55.740		1.00	27	59		AAAA
MOTA	2379	CA	TYR	Α	300		26.629		50.477			1.00				AAAA
MOTA	2380	CB	TYR	Α	300		25.425		51.437	55.700		1.00	20	01		AAAA
ATOM	2381	CG	TYR .	Α	300		25.516		52.599	54.718		1.00	32	. 7 1		
ATOM -	2382	CD1	TYR	Α	300		26.181		52.464	53.491		1.00				AAAA
	2383	CE1	TYR	Δ	300		26.160	!	53.487	52.538		1.00				AAAA
MOTA			TYR	2	300		24.837		53.801	54.969		1.00				AAAA
MOTA	2384	CD2	TYR	~	300		24.809		54.830	54.018		1.00	34	. 64		AAAA
MOŢA	2385	CE2					25.468		54.657	52.807		1.00	34	.56		AAAA
MOTA	2386	CZ	TYR	A	300				55.630	51.844		1.00	36	. 05		AAAA
MOTA	2387	OH	TYR	A	300		25.389			56.936		1.00				AAAA
MOTA	2388	С	TYR	Α	300		26.454		49.538	57.979		1.00				AAAA
ATOM	2389	0	TYR	Α	300	•	27.073		49.726	-		1.00				AAAA
MOTA	2390	N	ALA	Α	301		25.581		48.547	56.791		1.00	2.4	- - 1 -		AAAA
ATOM	2391	CA	ALA	Α	301		25.328		47.606	57.865	•	1.00	24	.04		- AAAA
ATOM	2392	CB	ALA	Α	301		24.164		46.731	57.511		1.00	25	. 32		
	2393	C	ALA	Α	301		26.568		46.775	58.067		1.00	25	.53		AAAA
MOTA	2394	Õ	AT.A	A	301		27.030)	46.567	59.194	4	1.00	26	. 39		AAAA
MOTA		N	LEIL	Δ	302		27.108	3	46.304	56.950		1.00				AAAA
ATOM	2395				302		28.323		45.500	56.926		1.00				AAAA
ATOM	2396	CA			302		28.782		45.378	55.479	9	1.00	27	.38		AAAA
MOTA	2397	CB					30.081		44.723	55.024		1.00	28	3.18		AAAA
MOTA	2398	CG			302		30.119		44.840	53.50		1.00	29	.32		AAAA
MOTA	2399	CD1	LEU	A	302				45.389	55.61		1.00	27	7.38		AAAA
MOTA	2400	CD2	LEU	A	302		31.296			57.76		1.00				AAAA
MOTA	2401	С	LEU	A	302		29.398		46.187	58.75		1.00	26	62		AAAA
ATOM	2402	0	LEU	Α	302		29.874		45.648			1.00	26	5.50		AAAA
ATOM	2403	N	ALA	Α	303		29.756		47.397	57.35		1.00	20	. 92		AAAA
ATOM	2404	CA	ALA	Α	303		30.778		48.176	58.02		1.00	2.	5.72		AAAA
ATOM	2405	CB	ALA	A	303		31.001		49.475	57.27		1.00	2:			AAAA
MOTA	2406	С	ALA	A	303		30.490		48.464	59.48		1.00	20	5.03		AAAA
ATOM	2407	0	ALA	. A	303		31.325	5	48.175	60.34		1.00	20	5.95		AAAA
ATOM	2408	N			304		29.322	2	49.028	59.79		1.00) 2:	5.29		
	2409	CA	ARG	A	304		28.999	9	49.353	61.17		1.00	2.	3.46		AAAA
MOTA	2410	CB	2 RG		304 .		27.643		50.059	61.29	1	1.00	2.	3.78		AAAA
ATOM		CG	3 PG	. 3	304		27.55	3	51.451	60.62	9	1.00	2	4.59		AAAA
MOTA	2411	CD) PC	Δ	304		26.30		52.223	61.09	1	1.00	2 2	5.85		AAAA
ATOM	2412		. ARG	2	304		25.06		51.465	60.86	9	1.00) 2.	7.54		AAAA
MOTA	2413	NE	300	. 7	304		23.97		51.547	61.63	7	1.00	2	8.36		AAAA
ATOM	2414	CZ	ARG	, ,	204		23.95		52.362	62.69		1.00	2	6.48		AAAA
ATOM	2415		ARC		304		22.91		50.794	61.35		1.00	2	8.45		AAAA
MOTA	2416	NH2	ARC		304		28.99		48.118	62.05		1.0	0 2	3.18		AAAA
MOTA	2417	С	ARG	, ,	304		29.59		48.099	63.13		1.0	0 2	2.26		AAAA
ATOM	2418	0	ARG	,	304		28.33		47.075	61.56		1.0	0 2	3.20		AAAA
ATOM	2419	N	ALA	•	305				45.817	62.29				2.33		AAAA
ATOM	2420	CA	شلة		305		28.20		44.866	61.51				2.17		AAAA
ATOM	2421	CB	ALA		305		27.31					1 0	0 2	2.27		AAAA
MOTA	2422	С	ALA	. 1	A 305		29.51		45.137	62.62		1 0	n 2	2.48		AAAA
MOTA	2423	0	ALA	A 2	A 305		29.76		44.757	63.76		1.0	ດ້ວ	2.57		AAAA
ATOM	2424	N	TRI	? ?	306		30.36		44.969	61.62	-1	1.0	0 2	1.28		AAAA
ATOM	2425	CA	TRI	? /	A 306		31.63		44.307			1.0	0 2	1.20		AAAA
ATOM	2426	CB	TRI	?]	A 306		32.27		43.885			1.0	0 2	1.07		AAAA
ATOM	2427	CG			A 306		31.70	3	42.618	60.00		1.0	0 2	0.75		
ATOM	2428	CD:	TRI	,	A 306		31.88	36	42.103			1.0	0 1	9.54		AAAA
	2429	ÇE:	TRI	p ;	306		31.35	2	40.795	58.66	68	1.0	0 1	9.18		AAAA
MOTA	2430	C.E.	ופת נ		A 306		32.45	6	42.616	57.5	10	1.0	0 1	9.59		AAAA
MOTA		CE.	ית בי	D :	A 306		31.07				13	1.0	0 2	0.51		AAAA
MOTA	2431	CD.	1 W.D.		A 306		30.86		40.537		22	1.0	0 1	.9.74	•	AAAA
MOTA	2432	NE.	T LK	n 4	206		31.36		39.990			1.0	0 1	9.18		AAAA
MOTA	2433	CZ.	2 TK	-	A 306		32.47		41.810			1.0	0 1	8.98		AAAA
ATOM	2434	CZ.	TR. و	, א	A 306		31.93		40.513			1.0	0 1	9.21		AAAA
MOTA	2435		2 TR	٦,	A 306				45.159			1.0	0 2	08.0		AAAA
ATOM	2436	С	TR	Ρ.	A 306		32.57					1 0	0 3	20.55		AAAA
MOTA	2437	0	TR	P.	A 306		33.45		44.630			1 0	0	20.17		AAAA
ATCM	2438	N	TH	R	A 307		32.37		46.475			1 0	10 3	20.54		AAAA
MOTA			TH	R	A 307		33.17		47.399			1.6	10 1	21.09		AAAA
ATOM		CB	TH	R	A 307		32.86	51	48.881			1.6	10 2	21.25		AAAA
ATOM	-	OG	1 TH	R	A 307		33.32	29	49.159			1.0	,,,	20.00		AAAA
ATOM			2 TH	R	A 307		33.52	23	49.839	64.0	30	1.0	, ,	20.09		

	,			•				
			207	32.853	47.135	64.893	1.00 20.88	AAAA
MOTA	2443 C	THR A	307	33.738	47.175	65.747	1.00 21.89	AAAA
MOTA	2444 0	THR A	307	31.588	46.851		1.00 20.10	AAAA
MOTA	2445 N	LEU A	308	31.189	46.543	66.559	1.00 21.10	AAAA
MOTA	2446 CA	_	308	29.671	46.340		1.00 20.99	AAAA
MOTA	2447 CB		308	28.897	47.656	T	1.00 21.54	AAAA
MOTA	2448 CG	1 LEU A	308	27.397	47.473	66.411	1.00 19.91	AAAA AAAA
MOTA		2 LEU A	308	29.177	48.283	68.045	1.00 21.04	AAAA
MOTA		LEU A	308	31.886	45.284	67.052	1.00 21.98	AAAA
MOTA	2451 C 2452 O	LEU A		32.284	45.186	68.215	1.00 22.17 1.00 22.32	AAAA
MOTA MOTA	2452 N	ILE A	309	32.023	44.310	66.165	1.00 22.32	AAAA
ATOM	2454 CA	ILE A	309	32.658	43.069	66.544	1.00 23.12	AAAA
ATOM	2455 CE	ILE A	309	32.590	42.016	65.413 65.827	1.00 21.76	AAAA
MOTA	2456 CC	2 ILE A	309	33.356	40.787 41.678	65.061	1.00 22.16	AAAA
MOTA	2457 CC	1 ILE A	. 309	31.140	41.075	66.166	1.00 22.01	AAAA
MOTA	2458 CI	ol ILE A	. 309	30.366 34.115	43.377	66.790	1.00 24.52	AAAA
ATOM	2459 C	ILE A	309	34.734	42.828	67.709	1.00 25.72	AAAA
MOTA	2460 O	ILE A	309	34.673	44.253	65.957	1.00 24.70	AAAA
ATOM	2461 N	TRP A	310	36.075	44.570	66.099	1.00 24.20	AAAA
MOTA	2462 C		310	36.587	45.417	64.944	1.00 23.29	AAAA
MOTA	2463 C		310	38.040	45.712	65.123	1.00 23.17	AAAA AAAA
MOTA	2464 C	D2 TRP A	310	39.104	44.752	65.257	1.00 21.36	AAAA
MOTA		E2 TRP A	310	40.291	45.472	65.490	1.00 20.62 1.00 20.01	AAAA
MOTA		E3 TRP A	310	39.165	43.354	65.202	1.00 20.01	AAAA
MOTA MOTA		D1 TRP A		38.614	46.938	65.273	1.00 22.32	AAAA
ATOM		E1 TRP A	A 310	39.967	46.803	65.497	1.00 22.30	AAAA
MOTA		Z2 TRP A	A 310	41.521	44.845	65.668 65.381	1.00 19.08	AAAA
ATOM		Z3 TRP	A 310	40.388	42.734	65.610	1.00 19.40	AAAA
ATOM	2472 C	H2 TRP	A 310	41.547	45.279	67.411	1.00 25.26	AAAA
ATOM	2473 C	TRP	A 310	36.318 37.262	44.945	68.109	1.00 24.71	AAAA
MOTA	2474 C	TRP	A 310	35.467	46.247		1.00 26.76	AAAA
MOTA	2475 N		A 311 A 311	35.608	46.975	69.007	1.00 27.89	AAAA
MOTA			A 311 A 311	34.548	48.081	69.113	1.00 28.98	AAAA
MOTA			A 311	34.798	49.462	67.991	1.00 31.89	AAAA AAAA
MOTA		CYS	A 311	35.495	46.043	70.212	1.00 27.51 1.00 26.90	AAAA
MOTA		CYS	A 311	36.289	46.127	71.135	1.00 27.33	AAAA
MOTA MOTA		V GLU	A 312	34.495	45.169	70.187	1.00 27.33	AAAA
ATOM		CA GLU	A 312	34.246	44.210			AAAA
MOTA		CB GLU	A 312	33.106				AAAA
ATOM	2484	G GLU	A 312	31.903	43.333 42.958			AAAA
ATOM	2485	CD GLU	A 312	32.232 32.954			1.00 30.81	AAAA
MOTA		OE1 GLU	A 312	32.954			1.00 30.79	AAAA
MOTA		OE2 GLU	A 312	35.463			1.00 28.91	AAAA
MOTA		C GLU	A 312 A 312	35.822			1.00 30.57	AAAA
MOTA		O GLU	A 313	36.081		70.436		AAAA AAA A
MOTA			A 313	37.266	42.045	70.516	1.00 28.87	AAAA
MOTA		CA LEU	A 313	37.524	41.373	69.157		AAAA
MOTA		CG LEU	A 313	36.548	40.31			AAAA
ATOM ATOM		CD1 LEU	A 313	36.910			10	AAAA
ATOM		CD2 LEU	A 313	36.582				AAAA
MOTA		C LEU	A 313	38.474				AAAA
ATOM		O LEU	A 313	39.215				AAAA
ATOM		N SER	A 314	38.642				AAAA
ATOM		CA SER	A 314	39.73			1 1.00 27.49	AAAA
ATOM	2500	CB SER	A 314	39.690 40.70			3 1.00 30.12	AAAA
ATOM	2501	OG SER	A 314	39.66			7 1.00 29.67	AAAA
ATOM	2502	C SER	A 314	40.48			3 1.00 29.00	AAAA
ATOM		O SER	A 314 A 315	38.67			8 1.00 30.78	AAAA
ATOM		N GLY	A 315	38.53		5 73.82	7 1.00 32.92	AAAA AAAA
ATON		CA GLY	A 315	38.54		2 73.78		AAAA
ATON		O GLY	A 315	39.14	2 48.09			AAAA
ATC!		N ARG	A 316	37.88	1 48.04	1 72.79	4 1.00 30.00	
ATO	2. 2.200	•						

ATOM	2509	CA	ARG	A	316	37.841	1 49.493	72.702	1.00 39.49	AAAA
ATOM	2510	CB	ARG			38.608	3 49.968	71.484	1.00 39.86	AAAA
ATOM	2511	CG	ARG	Α	316	37.946		70.161	1.00 40.77	AAAA
ATOM	2512	CD	ARG	A	316	38.843		69.077	1.00 41.47	AAAA
ATOM	2513	NE	ARG			40.140		69.092	1.00 42.36	AAAA AAAA
ATOM	2514	CZ	ARG			41.224		68.515	1.00 43.38 1.00 44.76	AAAA
MOTA	2515		ARG			41.159		67.882	1.00 44.70	AAAA
MOTA	2516		ARG			42.36		68.556 72.631	1.00 43.71	AAAA
MOTA	2517	С	ARG			36.418 35.56		71.959	1.00 42.64	AAAA
ATOM	2518	0	ARG GLU			36.16		73.329	1.00 43.10	AAAA
MOTA	2519 2520	N CA	GLU			34.83		73.356	1.00 44.51	AAAA
atom atom	2521	CB	GLU			34.80		74.293	1.00 46.17	AAAA
ATOM	2522	CG			317	34.47	2 52.614	75.759	1.00 49.65	AAAA
ATOM	2523	CD	GLU	Α	317	35.42		76.439	1.00 52.51	AAAA
ATOM	2524	OE1	GLU	Α	317	35.15		77.607	1.00 53.37	AAAA AAAA
MOTA	2525	OE2	GLU			36.44		75.831	1.00 54.14 1.00 43.86	AAAA
ATOM	2526	C			317	34.31		71.974 71.108	1.00 42.46	AAAA
ATOM	2527	0			317	35.06° 33.02°		71.779	1.00 44.79	AAAA
ATOM	2528	N			318 318	32.39		70.502	1.00 45.57	AAAA
ATOM	2529 2530	CA CB			318	31.09		70.324	1.00 45.36	AAAA
ATCM ATOM	2531		VAL			30.53		68.924	1.00 45.44	AAAA
ATOM	2532		VAL			31.36		70.612	1.00 46.35	AAAA
ATOM	2533	C			318	32.00		70.377	1.00 46.41	AAAA
MOTA	2534	0			318	31.19		71.165	1.00 46.53	AAAA AAAA .
MOTA	2535	N			319	32.58		69.396	1.00 46.89 1.00 46.44	AAAA
MOTA	2536	CD			319	33.58 32.20		68.375 69.247	1.00 47.62	AAAA
ATOM	2537	CA			319 319	33.02		68.024	1.00 46.96	AAAA
ATOM	2538 2539	CB CG			319	33.16		67.251	1.00 46.38	AAAA
MOTA MOTA	2540	C			319	30.70		68.97 7	1.00 48.64	AAAA
MOTA	2541	o			319	30.23		68.262	1.00 48.61	AAAA
ATOM	2542	N			320	29.94		69.544	1.00 49.24	AAAA
MOTA	2543	CA			320		2 . 56 . 598	69.288	1.00 50.01 1.00 51.15	AAAA AAAA
ATOM	2544	CB			320	27.72 27.82		70.363 70.339	1.00 51.15	AAAA
ATOM	2545	CG			320 320	26.82		71.282	1.00 54.34	AAAA
ATOM	2546 2547	CD			320	25.60		71.077	1.00 54.04	AAAA
ATOM ATOM	2548	OE2	GLU	Ä	320	27.25		72.228	1.00 55.06	AAAA
ATOM	2549	C			320	28.20	6 57.168	67.921	1.00 49.78	AAAA
MOTA	2550	0			320	27.17		67.324	1.00 49.79	AAAA
ATOM	2551	N			321	29.11		67.407	1.00 49.26 1.00 49.20	AAAA AAAA
ATOM	2552	CA			321	28.90		66.109 66.251	1.00 49.20	AAAA
MOTA	2553	CB	LYS	A	321	28.87		66.634	1.00 52.88	AAAA
MOTA	354	CG	LYS	A	321 321	30.23 30.71		68.002	1.00 53.76	AAAA
ATOM	. 555	CD CE			321	32.22	9 60.348	68.154	1.00 55.00	AAAA
ATOM	2356 2557	NZ			321	32.71		67.829	1.00 55.95	AAAA
ATOM ATOM	2558	C			321	30.03		65.171	1.00 48.64	AAAA
ATOM	2559	ō			321	31.05	2 57.650	65.590	1.00 48.58	AAAA
ATOM	2560	N	LEU	A	322	29.85		63.894	1.00 47.78	AAAA
ATOM	2561	CA			322	30.87		62.896	1.00 46.13 1.00 46.84	AAAA AAAA
ATOM	2562	CB			322	30.24		61.638 61.848	1.00 47.71	AAAA
MOTA	2563	CG			322	29.24 28.78		60.491	1.00 48.02	AAAA
MOTA	2564	CD1	LEU	À	322 322	29.85		62.667	1.00 48.21	AAAA
ATOM	2565	CD2	1.E11	n A	322	31.42		62.580	1.00 44.61	AAAA
ATOM	2566 2567	0	LEU	ה גו	322	30.67		62.491	1.00 44.73	AAAA
MOTA MOTA	2568	N			323	32.74	11 59.706	62.447	1.00 42.66	AAAA
ATOM	2569	CA	ASN	A	323	33.36		62.135	1.00 41.19	AAAA
ATOM	2570	CB	ASN	A	323	34.86		62.402	1.00 41.07	AAAA AAAA
ATOM	2571	CG			323	35.57		61.436	1.00 41.43 1.00 42.46	AAAA
ATOM	2572	OD1	ASN	٨	323	35.11		61.147 60.943	1.00 42.46	AAAA
atom	2573		ASN	A	323	36.72 33.06			1.00 40.76	AAAA
ATOM	2574	С	ASN	ı A	323	٥٠. د د				_

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				•	32.430	60.395	60.010	1.00 40.19	AAAA
MOTA	2575	0 .	ASN A 323 ASN A 324		33.523	62.352	60.129	1.00 40.11	aaaa
ATOM	2576 2577	N A	ASN A 324		33.268	62.699	58.735	1.00 39.99	AAAA
ATOM ATOM	2578		ASN A 324		33.711	64.128	58.472	1.00 39.54	aaaa aaaa
ATOM	2579	CG .	ASN A 324		33.003	65.114	59.361	1.00 40.88 1.00 40.77	AAAA
ATOM	2580	OD1	ASN A 324		31.763	65.145	59.417 60.064	1.00 40.77	AAAA
ATOM	2581	ND2	ASN A 324		33.779	65.938	57.712	1.00 40.10	AAAA
ATOM	2582		ASN A 324		33.918	61.786 61.468	56.678	1.00 39.24	AAAA
MOTA	2583	Ç	ASN A 324		33.320 35.144	61.376	58.011	1.00 40.41	AAAA
ATOM	2584		LYS A 325 LYS A 325	_	35.908	60.519	57.126	1.00 41.41	AAAA
ATOM	2585		LYS A 325	•	37.262	50.201	57.761	1.00 42.64	AAAA
MOTA	2586 2587	CB CG	LYS A 325		38.224	59.504	56.828	1.00 44.45	AAAA AAAA
MOTA	2588	CD	LYS A 325		39.575	59.199	57.491	1.00 45.61 1.00 45.88	AAAA
MOTA MOTA	2589	CE	LYS A 325		40.358	60.464	57.850	1.00 45.88	AAAA
ATOM	2590	NZ	LYS A 325		41.717	60.151	58.494 56.856	1.00 41.56	AAAA
ATOM	2591	С	LYS A 325		35.124	59.248 58.781	55.716	1.00 41.35	AAAA
MOTA	2592	0	LYS A 325		35.042 34.524	58.703	57.906	1.00 41.32	AAAA
MOTA	2593	N	ALA A 326 ALA A 326		33.732	57.492	57.774	1.00 41.07	ÄÄÄÄ
MOTA	2594	CA CB	ALA A 326		33.452	56.912	59.143	1.00 40.87	AAAA AAAA
MOTA	2595 2596	C	ALA A 326		32.420	57.722	57.019	1.00 41.24	AAAA
MOTA MOTA	2597	Ö	ALA A 326		32.045	56.913	56.174	1.00 40.91 1.00 41.92	AAAA
MOTA	2598	N	LYS A 327	'	31.719	58.815	57.316 56.631	1.00 42.20	AAAA
ATOM	2599	CA	LYS A 327	1	30.451	59.097 60.374	57.170	1.00 43.61	AAAA
ATOM	2600	CB	LYS A 32		29.796 29.534	60.413	58.670	1.00 45.83	خنجة
MOTA	2601	CG	LYS A 32	,	28.745	51.681	59.029	1.00 47.34	AAAA
MOTA	2602	CD	LYS A 32°	7	28.682	61.952	60.538	1.00 48.28	AAAA
MOTA	2603 2604	CE NZ	LYS A 32	7	28.090	60.845	61.351	1.00 48.98	AAAA AAAA
MOTA MOTA	2605	C	LYS A 32	7	30.673	59.266	55.125	1.00 41.33 1.00 40.78	AAAA
ATOM	2606	ō	LYS A 32	7	29.879	58.797	54.309 54.781	1.00 40.78	AAAA
ATOM	2607	N	GLU A 32	3	31.761	59.950 60.217	53.399	1.00 38.91	AAAA
ATOM	2608	CA	GLU A 32	3	32.129 33.300		53.369	1.00 40.04	AAAA
MOTA	2609	CB	GLU A 32 GLU A 32	5 D	32.941		53.909	1.00 41.94	AAAA
MOTA	2610	CG CD	GLU A 32	8	34.131		53.994	1.00 43.77	AAAA AAAA
ATOM	2611 2612	OE1	GLU A 32	8	34.904	63.595		1.00 44.29	AAAA
ATOM ATOM	2613	OE2	GLU A 32	8	34.285		55.040	1.00 45.11 1.00 37.39	AAAA
ATOM		C	GLU A 32	8	32.497				AAAA
MOTA	2615	0	GLU A 32	8	32.114 33.255			1.00 35.67	AAAA
ATOM	2616	Ŋ	LEU A 32 LEU A 32	9	33.657			1.00 33.03	AAAA
ATOM	2617		LEU A 32	9	34.451	56.012	53.813		aaaa
ATOM	2618		LEU A 32	9	34.760	54.549		1.00 27.48	AAAA AAAA
MOTA MOTA	2619 2620		LEU A 32	9	35.549	54.453			AAAA
MOTA			2 LEU A 32	9	35.51				AAAA
MOTA			LEU A 32	9	32.405				AAAA
MOTA	2623		LEU A 32	9	32.239 31.519			1.00 33.92	AAAA
MOTA	2624		LEU A 33	0	30.289			1.00 34.91	AAAA
ATOM				10	29.41		3 54.292	1.00 34.02	AAAA
ATOM				0	30.06	7 54.236			AAAA AAAA
MOTA			1 LEU A 3	0	29.09	6 54.060			AAAA
MOTA MOTA			2 LEU A 3:	30	30.51	2 52.897			AAAA
ATOM			LEU A 3	30	29.49				AAAA
ATOM		1 0	LEU A 3	30	28.98 29.41				АААА
ATOM	2632		LYS A 3	5 1 2 1	28.66		_	5 1.00 41.05	AAAA
ATOM				3 1	28.40		1 51.23	3 1.00 41.83	AAAA
MOTA			_	31	27.58	4 59.35	8 52.49		алал Алал
MOTA				31	27.20	2 60.82			AAAA
aton Aton		-	LYS A 3	31	26.18				AAAA
ATOM	•		LYS A 3	31	25.69				AAAA
ATO			LYS A 3	31	29.34				AAAA
ATO			LYS A 3	31	28.71	.4 31.30	, 30.40		•
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- mov.	2641	N	SER A	332	3	30.618	57.316	49.463	1.00 44.45	AAAA
ATOM	2641 2642		SER A			31.351	57.271	48.202	1.00 46.88	AAAA
MOTA MOTA	2643		SER A		3	32.854	57.416	48.435	1.00 46.49	AAAA
ATOM	2644		SER A		3	33.380	56.263	49.058	1.00 45.65	AAAA
ATOM	2645		SER A			31.093	55.959	47.494	1.00 48.73	AAAA AAAA
ATOM -	2646	0	SER A	332		31.262	55.854	46.281	1.00 49.51 1.00 50.62	AAAA
MOTA	2647		ILE A			30.697	54.952	48.258	1.00 52.65	AAAA
ATOM	2648		ILE A			30.420	53.648	47.686 48.779	1.00 52.05	AAAA
ATOM	2649		ILE A			30.246	52.584	48.779	1.00 51.40	AAAA
ATOM	2650	CG2	ILE P	333		29.889	51.248 52.465	49.596	1.00 52.29	AAAA
MOTA	2651		ILE A			31.522 31.403	51.463	50.696	1.00 53.23	AAAA
MOTA	2652		ILE A			29.120	53.712	46.924-	1.00 54.42	AAAA
ATOM	2653	С 0		A 333 A 333		28.122	54.178	47.462	1.00 55.10	AAAA
MOTA	2654 2655	И		A 334		29.118	53.274	45.672	1.00 56.56	AAAA
MOTA MOTA	2656	CA	ASP A	A 334		27.863	53.263	44.940	1.00 59.13	AAAA
MOTA	2657	СВ	ASP A	A 334		28.050	53.460	43.433	1.00 59.64	AAAA AAAA
ATOM	2658	CG	ASP A	A 334 .		28.976	52.446	42.823	1.00 59.23 1.00 58.87	AAAA
ATOM	2659	OD1	ASP A	A 334		28.853	52.194	41.606	1.00 59.34	AAAA
MOTA	2660	OD2	ASP A	A 334		29.839	51.925	43.559 45.215	1.00 60.95	AAAA
MOTA	2661	С		A 334		27.251	51.898 50.861	44.840	1.00 61.15	AAAA
MOTA	2662	0		A 334		27.803 26.113	51.914	45.897	1.00 62.56	AAAA
MOTA	2663	N		A 335		25.414	50.701	46.257	1.00 64.12	AAAA
MOTA	2664	CA		A 335 A 335		25.311	50.621	47.779	1.00 64.40	AAAA
MOTA	2665	CB CG	PHE .	A 335		24.224	49.714	48.263	1.00 64.98	AAAA
MOTA	2666 2667			A 335		24.180	48.379	47.868	1.00 65.54	AAAA
MOTA	2668	CD2	PHE	A 335		23.234	50.197	49.107	1.00 65.12	AAAA
MOTA MOTA	2669	CE1	PHE	A 335		23.163	47.539	48.305	1.00 65.75	AAAA AAAA
MOTA	2670	CE2	PHE	A 335		22.213	49.367	49.552	1.00 65.79 1.00 66.01	AAAA
ATOM	2671	CZ	PHE	A 335		22.177	48.034	49.150 45.640	1.00 65.41	AAAA
MOTA	2672	С		A 335		24.025	50.626 49.564	45.184	1.00 65.27	AAAA
MOTA	2673	0	PHE	A 335		23.591 23.338	51.763	45.618	1.00 66.38	AAAA
MOTA	2674	N	GLU	A 336		21.980	51.826	45.097	1.00 67.49	AAAA
MOTA	2675	CA	CIII	A 336 A 336		21.893	51.260	43.673	1.00 68.25	AAAA
MOTA	2676 2677	CB CG	CLU	A 336		20.459	51.230	43.116	1.00 69.15	AAAA
MOTA MOTA	2678	CD	GLU	A 336		20.334	50.465	41.804	1.00 69.40	AAAA AAAA
ATOM	2679	OE1	GLU	A 336		20.710	49.271	41.784	1.00 69.57	AAAA
ATOM	2680	OE2	GLU	A 336		19.851	51.051	40.804	1.00 69.10 1.00 67.68	AAAA
ATOM	2681	С	GLU	A 336		21.098	50.999	46.025	1.00 67.58	AAAA
MOTA	2682	0	GLU	A 336		21.216	49.776 51.679	46.761	1.00 67.87	AAAA
MOTA	2683	N	GLU	A 337		20.227		47.686	1.00 68.66	AAAA
ATOM	2684	CA	GLU	A 337		18.583	52.085	48.502	1.00 68.88	AAAA
MOTA	2685	CB	CLII	A 337		18.279		49.944	1.00 68.12	AAAA
ATOM	2686 2687	CG CD	GLU	A 337		19.527		50.789		AAAA
MOTA MOTA	2688	OEI	GLU	337		20.319	52.554	50.851	1.00 67.05	AAAA AAAA
MOTA	2689		GLU	A 337		19.711		_		AAAA
ATOM	2690		GLU	A 337		18.322				AAAA
ATOM	2691	0	GLU	A 337		17.886				AAAA
ATOM	2692	N	PHE	A 338		17.966				AAAA
ATOM	2693		PHE	A 338		17.035 16.995				AAAA
MOTA	2694		PHE	A 338		16.225				AAAA
MOTA	2695		THE	A 338 A 338		16.666			1.00 72.04	AAAA
MOTA	2696) SAE	A 338		15.052		46.698		AAAA
MOTA	2697		PHE	A 338		15.944			1.00 72.23	AAAA
MOTA	2698 2699			A 338		14.323		45.909		AAAA
MOTA MOTA	2700		PHE	A 338		14.770	43.991			AAA A AAAA
ATOM	2701		PHE	A 338		15.633				AAAA
ATOM	2702	_	PHE	A 338		15.072				AAAA
MOTA	2703		ASP	A 339		15.053				_
MOTA	2704		ASP	A 339		13.733				
· ATOM	2705	_		A 339		13.134	_			_
MOTA		s cg	ASP	A 339		11.819	, 50.23.		- 	•
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		11 813 51.462 49.058 1.00 69.39	AAAA
MOTA	2707 OD1 ASP A 339	11.813	AAAA
ATOM	2708 OD2 ASP A 339	10.790 43.010	AAAA
ATOM	2709 C ASP A 339	13.972 31.00 60 92	AAAA
ATOM	2710 O ASP A 339	14.303 31.023 16.160 1.00 70 23	AAAA
ATOM	2711 N ASP A 340	13.010 31.300 1 00 70 70	AAAA
	2712 CA ASP A 340	14.023 32.740	AAAA
ATOM	2713 CB ASP A 340	12./3/ 33.403	AAAA
ATOM	2714 CG ASP A 340	12.39/ 32.31/ 30.70 03	AAAA
MOTA	2715 OD1 ASP A 340	12.120 31.302	AAAA
MOTA	2716 OD2 ASP A 340	12.355 33.123 1.00 70 63	AAAA
ATOM	2717 C ASP A 340	14.402 33.071 2.00 71 13	AAAA
MOTA	2718 O ASP A 340	13.000	AAAA
ATOM	2719 N GLU A 341	13.343 34.437	AAAA
ATOM	2720 CA GLU A 341	13.74/	AAAA
ATOM	2721 CB GLU A 341	13.636 36.013 10.073 44	AAAA
MOTA	2722 CG GLU A 341	14.090 37.001 22.00	AAAA
MOTA		13.956 59.071 48.951 1.00 75.27	AAAA
MOTA	2723 CD GLU A 341 2724 OE1 GLU A 341	12.825 59.518 48.646 1.00 76.21 14.825 59.786 48.954 1.00 75.69	AAAA
MOTA	2725 OE2 GLU A 341	14,964 33.700 2012 1 00 67 00	AAAA
ATOM		13.367 54.819 49.983 1.00 67.03	AAAA
MOTA		13.367 54.615 50.297 1.00 66.57	AAAA
MOTA	740	14.158 54.114 50.785 1.00 64.87	AAAA
MOTA		13.767 53.779 52.148 1.00 62.55	AAAA
MOTA	2.2	14 265 52.377 52.589 1.00 62.61	AAAA
MOTA		14 042 52.193 54.081 1.00 62.36	AAAA
MOTA		13 513 51.298 51.849 1.00 63.69	AAAA
ATOM		14 483 54.822 52.982 1.00 59.94	
MOTA	2.00	14.022 55.215 54.054 1.00 59.91	AAAA AAAA
MOTA		15 609 55.278 52.442 1.00 56.85	AAAA
MOTA	2.0	16.457 56.266 53.085 1.00 54.01	AAAA
MOTA		15.639 57.446 53.605 1.00 54.18	AAAA
MOTA		16 505 58.511 54.241 1.00 53.96	
MOTA		15.947 59.485 54.785 1.00 54.59	AAAA AAAA
MOTA		17.747 58.373 54.191 1.00 53.61	AAAA
MOTA		17.186 55.609 54.242 1.00 51.92	AAAA
MOTA		16.611 55.371 55.307 1.00 51.89	AAAA
MOTA	> 344	18.458 55.306 54.029 1.00 48.86	AAAA
MOTA		19.240 54.676 55.069 1.00 43.39	AAAA
MOTA		19.847 53.369 54.573 1.00 43.94	AAAA
MOTA	> 244	18.847 52.289 54.220 1.00 41.70	AAAA
MOTA		17.953 51.955 55.385 1.00 38.94	AAAA
ATOM	244	17.139 50.781 55.096 1.00 36.78	AAAA
ATOM	2748 NE ARG A 344 2749 CZ ARG A 344	16.176 50.316 55.888 1.00 34.81 16.880 50 927 57.033 1.00 34.11	AAAA
MOTA	2750 NH1 ARG A 344	13.690 30.727 4 00 31 04	AAAA
MOTA		15.506 49.228 55.537 1.00 31.84 20.340 55.604 55.520 1.00 44.83	AAAA
MOTA	2751 NH2 ARG A 344 2752 C ARG A 344	20.340 33.00 07	A AA
MOTA	2753 O ARG A 344	21.300 33.43.	A. AA
MOTA		20.132 30.032	AAAA
ATOM	ca cen a 3/5	21.133 37.01	AAAA
MOTA	CED 3 2/5	20.000 33.230 33.33	AAAA
ATOM	on CED 3 3/5	13.043 32.122 = 1 4.00 42.02	AAAA
MOTA	CER 3 345	21.307	AAAA
ATOM	3 3/5	22.304 30.114 = 2.00 41 49	AAAA
ATOM	3/6	20,202	AAAA
ATOM	myn 3 346	20.290 37.323 3.00 40 30.	AAAA
ATOM	on myn 3 3/6	10.94/ 3/.000	AAAA
ATOM	mm > 346	18.630 55.601 59.609 1.00 39.20	AAAA
ATOM	346	17.477 73.777	AAAA
ATOM	255 OF1 MYP 3 346	19.022 33.33	AAAA
MOTA	myp 3 346	17.002 33.33	AAAA
ATON	and myr 2 346	17.405 53.882 58.408 1.00 38.17	AAAA
ATO	as myp 3 346	18.079 52.899 59.126 1.00 37.39	AAAA
ATON	AND A 346	17.794 51.580 58.898 1.00 37.14	AAAA
ATO	1 c myp 3 346	21.436 56.686 59.849 1.00 39.91	AAAA
ATO:	3 amp A 346	21.967 56.957 60.921 1.00 40.28	AAAA
ATO	1 12 NOW 2 347	21.800 55.640 59.113 1.00 39.14	
ATC	M 21/2		

	2222 (A I	MET A	347	22.87	9 5	4.756	59.530	1.00	38.19	AAAA
ATOM		B I	MET A	347	23.04		3.582	58.566	1.00	38.26	AAAA
ATOM		.G 1	MET A	347	21.97		52.523	58.694	1.00	38.17	AAAA
MOTA	•		MET A		22.31	7 5	51.115	57.641		38.05	AAAA
MOTA			MET A		22.23	7 5	51.892	56.101	1.00	37.61	AAAA
ATOM			MET A	347	24.18		55.494	59.603		38.00	AAAA
MOTA			MET A		25.12		55.033	60.250	1.00	37.40	AAAA
MOTA		.1	LEU A	348	24.24		56.637	58.929		38.08	AAAA
MOTA	• . • .		LEU A		25.44	9 5	57.463	58.898		38.07	AAAA
ATOM		CB	LEU A	348	25.44		58.330	57.638		36.66	AAAA
MOTA			LEU A		25.37	9 5	57.583	56.310		35.47	AAAA
MOTA	2784	CD1	LEU A	348	25.28	5	58.559	55.165		34.51	AAAA
MOTA	2785	CD2	LEU A	348	26.60		56.716	56.167		36.56	AAAA
ATOM		C	LEU A	348	25.52	1	58.353	60.138		39.07	AAAA
MOTA		0	LEU A	348	26.54		58.980	60.406	1.00	38.81	AAAA AAAA
ATOM	_	N	GLU A	349	24.43		58.385	60.898		39.90	AAAA
MOTA		CA	GLU A	349	24.36		59.213	62.092	1.00	40.95	AAAA
MOTA		CB	GLU A	349	22.96		59.821	62.203	1.00	41.70	AAAA
MOTA MOTA			GLU A		22.51		60.629	60.966		42.28	AAAA
ATOM		CD	GLU A	349	23.34		61.891	60.708		42.51	AAAA
ATOM	2793	OE1	GLU A	349	23.41		62.778	61.587		42.38	AAAA
ATOM	_	OE2	GLU A	349	23.93	33	61.998	59.614		43.34	AAAA
ATOM		C	GLU A		24.74		58.511	63.406	1.00	41.12	AAAA
ATOM		ō	GLU A		24.66	-	59.118	64.476		41.38	AAAA
MOTA	2797	N	THR A	350	25.14		57.243	63.326	1.00	40.86	AAAA
MOTA	2798	CA	THR A	A 350	25.5		56.475	64.504	1.00	40.69 41.56	AAAA
ATOM	2799	СВ	THR A	350	24.40		56.283	65.510	1.00) 41.48	AAAA
ATOM	2800	CG1	THR A	A 350	24.0		57.549	66.078	1.00	41.48	AAAA
ATOM	2801	CG2	THR A	A 350	24.8		55.345	66.638		40.14	AAAA
ATOM	2802	С	THR A	A 350	26.1		55.109	64.141	1.00	39.93	AAAA
ATOM	2803	0	THR I	A 350	25.8		54.595	63.055	1.00	40.32	AAAA
ATOM	2804	N	LEU I	A 351	26.8		54.527	65.067	1.00	40.70	AAAA
ATOM	2805	CA	LEU A	A 351	27.4		53.227	64.857 65.540	1 0	39.89	AAAA
ATOM	2806	СB	LEU .	A 351	28.8		53.213	64.951	1 0	39.68	AAAA
ATOM	2807	CG	LEU .	A 351	29.9		52.290	65.772	1 0	0 39.88	AAAA
ATOM	2809	CD1		A 351	31.1		52.403 50.861	64.945	1.0	0 40.70	AAAA
ATOM	2809	CD2		A 351	29.4		52.091	65.384	1.0	0 41.12	AAAA
ATOM	2810	С	LEU	A 351	26.6		51.060	64.736	1.0	0 40.02	AAAA
ATOM		. 0	LEU	A 351	26.4 26.0		52.292	66.567	1.0	0 42.99	AAAA
ATOM	2812	N	LYS	A 352	25.1		51.326	67.201	1.0	0 43.93	AAAA
ATOM	2813	CA	LYS	A 352	25.4		51.225	68.707	1.0	0 43.38	AAAA
ATOM	2814	CB	LYS	A 352	26.7		50.597	69.055		0 44.68	AAAA
ATOM	2815	CG	LYS	A 352	27.1		50.927		1.0	0 45.48	AAAA
ATCM	2816	CD	LYS	A 352	26.1		50.500		1.0	0 46.21	AAAA
ATOM	2817	CE	LYS	A 352	26.6		50.944		1.0	0 47.34	AAAA
MOTA	2818	NZ	LYS	A 352	23.7	23	51.838	67.003	1.0	0 44.40	AAAA
ATOM	2819	C	LYS	A 352 A 352	.23.3	75	52.917		1.0	0 45.79	AAAA
ATCM	2820	0	PIS	A 353	22.9		51.083		1.0	0 44.78	AAAA
ATCM	2821	N	ASP	A 353	21.5		51.509		1.0	0 44.79	AAAA
MOTA	2822	CA	SED	A 353	21.0		51.030	64.702		0 45.20	AAAA
ATCM	2823	CB	ASP ACD	A 353	21.1	146	49.544	64.546	.1.0	0 45.21	AAAA
ATOM	2824	CG	ASP SCD	A 353	21.8		49.086		1.0	0 45.06	AAAA
MOTA	2825	003	SOP	A 353	20.5		48.841		1.0	0 45.54	AAAA
ATOM	2826		JOE JOE	A 353	20.6		50.993	67.217	1.0	0 44.44	AAAA
ATOM	2827	C	SCD	A 353	21.0	142	50.113		1.0	0 44.29	AAAA
ATCM	2828	0	DDU	A 354	19.4		51.553	67.367	1.0	0 44.22	AAAA
ATOM	2829	N	חפפ	A 354	18.8		52.617	66.550	1.0	0 44.38	AAAA
ATOM		CD		A 354	18.5		51.163	68.419		00 44.18	AAAA
ATCM		CA	ספב	A 354	17.		52.170	68.238		00 44.52	AAAA
ATCM		CB	DD0	A 354	17.		52.341		1.0	00 44.66	AAAA
ATCM		CG	רעט	A 354	17.		49.740		3 1.0	00 43.87	AAAA
ATOM	2834	0	DBU	A 354	17.		49.152	2 67.249		00 44.48	AAAA
ATOM		_	TRP	A 355	17.		49.198	8 69.469		00 43.23	AAAA
ATOM		N CA	TRP	A 355	17.		47.85	1 69.500		00 42.88	AAAA AAAA
ATCM		CB		A 355	16.		47.40	1 70.92	7 1.	00 46.42	. *****
ATOM	2838	CB						•			-

		Ligare 15	
		17 959 47 052 71.695 1.00 49.91	AAAA
MOTA	2839 CG TRP A 355	11.333	AAAA
ATOM	2840 CD2 TEP A 355	10.4/0 43.730	AAAA
ATOM	2841 CE2 TRP A 355	19.004 43.000	AAAA
ATOM	2842 CE3 TRP A 355	10.030 33.330 1 00 60 63	AAAA
ATOM	2843 CD1 TRP A 355	10.040 47.040 100 1 63	AAAA
MOTA	2844 NE1 TRP A 355	19.865 47.266 73 100 52 64	AAAA
ATOM	2845 CZ2 TRP A 355	20.400 43.752 71 921 1.00 53.12	AAAA
ATOM	2846 CZ3 TRP A 355	18.610 43.518 72 642 1.00 53.02	AAAA
ATOM	2847 CH2 TRP A 355	20.000 43.325 1.00.40.28	AAAA
ATOM	2848 C TRP A 355	15.700 47.700 60 503 1 00 39 82	AAAA
MOTA	2849 O TRP A 355	- 15.017 46.720 68.065 1.00 36.83	AAAA
ATOM	2850 N ARG A 356	15.391 40.315 67 225 1.00 33.70	AAAA
ATOM	2851 CA ARG A 356	14.440 46.303 65 772 1.00 29.50	AAAA
ATOM	2852 CB ARG A 356	15 625 47 423 65 256 1.00 25.22	AAAA
ATOM	2853 CG ARG A 356	15.633 47.194 63.973 1.00 21.53	AAAA
MOTA	2854 CD ARG A 356	17 055 48 435 63 533 1.00 18.55	AAAA
MOTA	2855 NE ARG A 356	17.035 48.533 62.574 1.00 17.06	AAAA
ATOM	2856 CZ ARG A 356	12 403 47 451 61 919 1.00 17.64	AAAA
MOTA	2857 NH1 ARG A 356	10.445 49 721 62 241 1.00 11.56	AAAA
ATOM	2858 NH2 ARG A 356	12 021 45 095 67 773 1.00 34.63	AAAA
ATOM	2859 C ARG A 356	13.605 44 117 67.051 1.00 35.86	AAAA
ATOM	2860 O ARG A 356	13 587 45 112 69.079 1.00 34.58	AAAA
ATOM	2861 N GLY A 357	13 003 43.960 69.734 1.00 34.33	AAAA
MOTA	2862 CA GLY A 357	11 536 43.783 69.395 1.00 34.31	AAAA AAAA
MOTA	2863 C GLY A 357	44 006 AA A18 68.484 1.00 33.30	AAAA
MOTA	2864 O GLY A 357 2865 N GLY A 358	10.876 42.906 70.139 1.00 34.47	AAAA
MOTA	2022	9.468 42.656 69.916 1.00 34.01	AAAA
MOTA		9.114 41.389 70.655 1.00 34.47	AAAA
MOTA	277 3 250	9.962 40.821 71.345 1.00 34.27	AAAA
ATOM -	250	7.869 40.948 70.523 1.00 34.16	AAAA
MOTA	250	7.438 39.729 71.180 1.00 33.34	AAAA
ATOM	750	5.910 33.044 72.00	AAAA
ATOM	3 350	3,2/8 40,040 1 00 30 40	AAAA
MOTA		3.003 41.020 1.00 30 65	AAAA
MOTA	3 350	3.01/ 40.100	AAAA
MOTA	2874 OE1 GLU A 359 2875 OE2 GLU A 359	3.330 44.434 11.44 1 00 33 06	AAAA
MOTA	2876 C GLU A 359	8.030 30.333 60 427 1 00 32 92	AAAA
MOTA	2877 O GLU A 359	0.070 30.000 1 00 32 63	AAAA
MOTA	2878 N VAL A 360	7.910 37.37 70 400 1 00 32 70	AAAA
ATOM	2879 CA VAL A 360	8.480 30.413 - 276 1 00 23 24	AAAA
ATOM	2880 CB VAL A 360	9.422 33.42 100 32 99	AAAA
MOTA	2981 CG1 VAL A 360	10.01/ 34.232 74 007 1 00 32 09	AAAA
ATOM	2092 CG2 VAL A 360	10.521 30.400 006 1 00 32 81	AAAA
MOTA MOTA	2883 C VAL A 360	7.339 33.313 37.00 32.02	AAAA
MOTA	2884 O VAL A 360	0.702 34.000 60 674 1 00 33 12	AAAA
ATOM	2885 N ARG A 361	7.004 33.324 004 1 00 33 52	AAAA
ATOM	2886 CA ARG A 361	0.035 34.550 66 565 1.00 33.43	AAAA
ATOM	2887 CB ARG A 361	5 721 35 985 65 967 1.00 34.35	AAAA
ATOM	DARR CG ARG A 361	5.731 35.032 64.469 1.00 33.90	AAAA
ATOM	2889 CD ARG A 361	7.420 36 331 64 193 1.00 31.70	AAAA
ATOM	, 2890 NE ARG A 361	7.430 36.502 62.978 1.00 31.18	AAAA
ATON	, 7891 CZ ARG A 301	7.060 36.562 61.941 1.00 30.48	AAAA
ATON	, 1892 NH1 ARG A 304	2 36 948 62 802 1.00 29.71	AAAA
ATO	, 2893 NH2 ARG A 30.	68.557 1.00 34.20	AAAA
ATO	, 2894 C ARG A 36.	7 101 22 537 68 968 1.00 33.79	AAAA
ATO	. 2895 O ARG A 30.	1014 32 407 68 496 1.00 34.68	AAAA
ATO	M 2896 N LYS A 36	68,901 1.00 35.62	AAAA
ATO	2897 CA LYS A 36	2 350 30 555 68.782 1.00 37.80	AAAA
ATO	M 2898 CB LYS A 36	2 270 21 226 69 756 1.00 40.38	AAAA
ATO	M 2899 CG LYS A 36	2 505 32 777 69.777 1.00 42.09	AAAA
ATO	M 2900 CD LYS A 36	2 208 33.446 68.420 1.00 41.94	AAAA
ATO	TODE LYS A Jo	2 2.203 34.909 68.451 1.00 39.85	AAAA
ATO	M 2902 NZ LYS A 30	5 710 30 177 68.005 1.00 35.12	AAAA
ATC	M 2903 C LYS A 30	2 201 60 407 1 00 34 14	АААА
ATC			•
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			CT 11		263		5.661	30.460	66.703	1.00	35.12	AAAA
MOTA	2905		GLU				6.445	29.741	65.699	1.00		AAAA
MOTA	2906		GLU				6.567	30.560	64.424	1.00		AAAA
MOTA	2907		GLU						63.711	1.00		AAAA
MOTA	2908		GLU				5.280	30.808		1.00		AAAA
ATOM	2909	CD	GLU	Α	363		5.477	31.704	62.517			AAAA
ATOM -	2910	OE1	GLU	A	363		6.287	31.324	61.637	1.00		
ATOM	2911		GLU				4.826	32.782	62.469	1.00		AAAA
	2912		GLU				7.836	29.450	66.181	1.00	35.14	ÁAAA
MOTA			GLU				8.321	28.316	66.098	1.00	34.50	AAAA
MOTA	2913						8.475	30.505	66.671	1.00	34.96	AAAA
MOTA	2914		VAL				9.830	30.431	67.180	1.00		AAAA
MOTA	2915		VAL					31.821	67.57D	1.00		AAAA
ATOM	2916		VAL				10.338		68.162 -			AAAA
MOTA	2917	CG1	VAL	Α	364	•	11.739	31.722				AAAA
ATOM	2918	CG2	VAL	À	364		10.337	32.715	66.347	1.00		
ATOM	2919	С	VAL				9.908	29.499	68.370	1.00		AAAA
ATOM	2920	ō	VAL				10.789	28.640	68.430	1.00		-AAAA
	2921	N	LYS				8.980	29.649	69.305	1.00	33.27	AAAA
MOTA			LYS				8.970	28.790	70.476	1.00	33.20	AAAA
MOTA	2922	CA	LYS				7.968	29.319	71.508	1.00	34.28	AAAA
MOTA	2923	CB					8.307	30.705	72.033		33.67	AAAA
MOTA	2924	ÇG	LYS						73.039		34.85	AAAA
MOTA	2925	CD	LYS				7.282	31.181			36.47	AAAA
ATOM	2926	CE	LYS				7.658	32.534	73.638	1.00	37.91	AAAA
ATOM	2927	NZ	LYS	A	365		6.698	32.990	74.710			AAAA
ATOM	2928	С	LYS	A	365		8.654	27.342	70.109		32.75	
ATOM	2929	0	LYS				9.071	26.421	70.818		31.95	AAAA
	2930	N	ASP				7.919	27.136	69.012		32.81	AAAA
MOTA	2931	CA	ASP				7.600	25.777	68.581	1.00	33.65	, AAAA
MOTA					366		6.459	25.726	67.557	1.00	33.98	AAAA '
MOTA	2932	CB					5.131	26.107	68.140	1.00	33.94	AAAA
ATOM	2933	CG	ASP	Α,	366		4.870	25.767	69.307		33.89	AAAA
MOTA	2934	OD1	ASP	A	366				67.412		35.08	AAAA
ATOM	2935	OD2	ASP	λ	366		4.332	26.722			33.05	AAAA
ATOM	2936	С			366		8.820	25.167	67.940		33.66	AAAA
MOTA	2937	0	ASP	Α	366		9.140	24.006	68.172			AAAA
ATOM	2938	N	THR	À	367		9.473	25.959	67.102		33.07	
ATOM	2939	CA	THR				10.684	25.540	66.412		32.27	AAAA
ATOM	2940	CB			367		11.304	26.719	65.641		32.28	AAAA
	2941	OG1			367		10.473	27.039	64.520		30.64	AAAA
ATOM		CG2	שמש	2	367		12.711	26.377	65.166	1.00	33.29	AAAA
ATOM	2942				367		11.680	25.044	67.442	1.00	31.71	AAAA
ATOM	2943	С					12.178	23.918	67.352		30.45	AAAA
ATOM .	2944	0			367		11.955	25.896	68.426	1 00	32.05	AAAA
MOTA	2945	N	LEU	A	368			25.560	69.482	1 00	32.49	AAAA
MOTA	2946	CA			368		12.888		70.421	1 00	32.27	AAAA
ATOM	2947	CB			368		13.085	26.749		1.00	32.71	AAAA
MOTA	2948	CG			368		14.097	27.809	69.960	1.00	32.71	AAAA
ATOM	2949	CD1	LEU	Α	368		15.488	27.170	69.899	1.00	33.00	
MOTA	2950	CD2	LEU	Α	368		13.709	28 393	68.597	1.00	31.86	AAAA
ATOM	2951	C			368		12.455	24.334	70.256	1.00	33.82	AAAA
	2952	õ			368		13.266	23.133	70.489		34.29	AAAA
MOTA	_	N			369		11.183	24.285	70.645	1.00	34.30	AAAA
ATOM	2953				369		10.687	23.135	71.375	1.00	36.0.7	AAAA
ATOM	2954	CA	GLU	~	360		9.211	23.319	71.748	1.00	38.71	AAAA
MOTA	2955	CB			369		8.974	24.285	72.920		40.18	AAAA
MOTA	2956	CG			369				73.341		41.56	AAAA
ATOM	2957	CD			369		7.509	24.359		1.00	41.83	AAAA
MOTA	.2958	OE1			369		6.917	23.276	73.572	1.00	41.03	AAAA
ATOM	2959	OE2	GLU	A	369		6.957	25.489	73.451		41.74	
MOTA	2960	С			369		10.893	21.822	70.611		37.16	AAAA
	2961	ō			369		11.338	20.831	71.196		37.00	AAAA
ATOM					370		10.586	21.788	69.315		37.71	AAAA
ATOM	2962	N	7.40	-	370		10.797	20.547	68.567		38.46	AAAA
MOTA	2963	CA					10.166	20.604	67.177		39.96	AAAA
ATOM	2964	CB			370			20.532	67.186		42.68	AAAA
ATOM	2965	CG	LYS	٦,	370		8.646		65.775	1 00	44.54	AAAA
ATOM	2966	CD	LYS	۲,	370		8.092	20.320		1 00	45.55	AAAA
ATOM	2967	CE	LYS	7	370		6.572	20.075	65.781			AAAA
ATOM	2968	NZ	LYS	,	370		6.009	19.797	64.409	1.00	45.50	AAAA
ATOM	2969	С	LYS	,	370		12.282	20.235	68.452	1.00	38.34	AAAA
ATOM	2970	Ö	LYS	; ;	370		12.683	19.071	68.493	1.00	37.86	AAAA

•	164.4	
	13.105 21.266 68.311 1.00 37.69	AAAA
ATOM 2971 N ALA A 371	14 543 21.057 68.226 1.00 37.20	AAAA
ATOM 2972 CA ALA A 371 ATOM 2973 CB ALA A 371	15 258 22.375 67.936 1.00 35.48	AAAA AAAA
A1011 2 27 2 371	15.023 20.477 69.558 1.00 37.63	AAAA
Alon Data A 371	15.920 19.626 69.585 1.00 37.12	AAAA
A1011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14.426 20.930 70.665 1.00 37.39	AAAA
Alon Same Charles A 372	14.790 20.302 1.00.36 52	AAAA
Alon on type A 372	14.022 21.23	AAAA
MOM 2979 CG LYS A 372	14.207 22.004	AAAA
ATTOM 2980 CD LYS A 372	13.309 23.330 73 901 1.00 22.67	AAAA
NOM 2981 CE LYS A 372	13.600 24.785 1.00 22.67	AAAA
ATOM 2982 NZ LYS A 3/2	14 495 18.957 72.077 1.00 37.60	AAAA
ATOM 2983 C LYS A 372	15 367 18.171 72.407 1.00 37.26	AAAA
A10M 2305 37 ATA A 373	13.249 18.595 71.789 1.00 38.17	AAAA AAAA
AIOM DOOG CO NIA A 373	12.812 17.206 71.829 1.00 39.33	AAAA
ATOM OF STA A 373	11.365 17.105 /4.555 1.00 41 02	AAAA
A1011	13.073 10.277 10.00 12 26	AAAA
100 2989 O ALA A 373	14.300 13.410	AAAA
NOW 2990 OXT ALA A 373	13.003 10.410 - 0.00 1 00 27 38	ZONE
HETATM 2991 ZN ZN B 951	24 579 33 295 53.458 1.00 31.95	SAHA
HETATM 2992 O1 SHA C 1	24 204 35 218 51 444 1.00 33.51	SAHA
HETATM 2993 OZ SHA C 1	24 570 33 085 52 069 1.00 34.03	SAHA
HETATM 2994 N1 SHA C 1	24 063 34 053 51.246 1.00 34.25	SAHA SAHA
HETATM 2990 CT DIE	23.090 33.625 50.259 1.00 36.87	SAHA
HETATM 2990 CZ SILI	23.548 33.781 48.816 1.00 39.33 23.488 33.784 47.852 1.00 40.86	SAHA
HETATM 2997 C3 SHA C 1 HETATM 2998 C4 SHA C 1	22.450 33.27	SAHA
UFTATM 2999 C5 SHA C 1	21.330 34.443	SAHA
интътм 3000 С6 SHA С ±	21.001 34.014 45 787 1.00 48.75	SAHA
HETATM 3001 C7 SHA C 1	19.754 35.720 44.693 1.00 50.75	SAHA
HETATM 3002 CB SHA C I	20 201 35 467 43 575 1.00 51.08	SAHA
HETATM 3003 O3 SHAC 1	19.591 36.956 45.085 1.00 52.52	SAHA SAHA
HETATM 3004 NZ	19.842 38.330 44.507 1.00 54.23	SAHA
HETATM 3003 CS SILL	19.243 39.431 45.215 1.00 53.70	SAHA
HETATM 3006 C10 SHA C 1 HETATM 3007 C11 SHA C 1	19.423 40.00	SAHA
HETATM 3008 C12 SHA C 1	20.109 41.003	SAHA
UETATM 3009 C13 SHA C 1	20.755 55.552 12.304 1.00 54 65	SAHA
upmamm 3010 Cl4 SHA C	26.405 44.023 49.378 1.00 4.67	SOLV
HETATM 3011 OH2 WAT D 2	27 702 16.865 62.162 1.00 4.67	SOLV
HETATM 3012 OH2 WAT D	23 251 30.387 59.575 1.00 10.12	SOLV SOLV
HETATM 3013 One mile	33.825 41.862 46.926 1.00 21.13	SOLV
HETATM 3014 One min	24.866 44.453 47.867 1.00 23.72	SOLV
HETATM 3015 OH2 WAT D 7	34.143 20.110 1 00 20 79	SOLV
H TATM 3017 OH2 WAT D 8	7.321 232 1 00 20 94	SOLV
W. PATM 3018 OH2 WAT D 9	25 500 44 510 74 823 1.00 31.62	SOLV
HETATM 3019 OH2 WAT D 10	10 200 27 707 65 303 1.00 14.70	SOLV
HETATM 3020 OH2 WAT D 11	20 400 34 049 61 067 1.00 25.01	SOLV
HETATM 3021 OH2 WAT D 12	44 757 33.106 46.084 1.00 25.90	SOLV SOLV
HETATM 3022 One min	22.457 60.823 57.444 1.00 13.21	SOLV
	3.399 32.742 65.163 1.00 20.00	SOLV
	34.4/3 31.444 - 2 00 27 96	SOLV
HETATM 3025 OH2 WAT D 16 HETATM 3026 OH2 WAT D 17	20.320 42.073	SOLV
HETATM 3027 OH2 WAT D 18	40.249 24.322 50 000 1 00 40 95	SOLV
UETATM 3028 OH2 WAT D 19	26,444 9 269 52,633 1.00 26.66	SOLV
HETATM 3029 OH2 WAT D 20	26.444 18 383 59.650 1.00 11.42	SOLV
HETATM 3030 OH2 WAT D 21	20.334 10.364 72.316 1.00 20.32	SOLV
HETATM 3031 OH2 WAT D 22	26.743 37.600 38.359 1.00 37.22	SOLV
HETATM 3032 OH	44.666 23.818 39.068 1.00 32.27	SOLV
	14.714 52.213 70.663 1.00 29.24	SOLV
	45.129 18.856 69.864 1.00 25.50	SOLV
HETATM 3035 OH2 WAT D 26 HETATM 3036 OH2 WAT D 27		•
HETATA 3030		

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					28.		20.659	2	8.788	43.520	1.00		SOLV	
HETATM	3037		WAT I		20; 29		32.271		8.000	53.512	1.00	47.72	SOLV	
HETATM	3038		I TAW I TAW		30		18.285		9.333	54.536	1.00	21.34	SOLV	
HETATM	3039		WAT I		31		49.978	3	88.669	73.461	1.00		SOLV	
HETATM HETATM	3040		I TAW		32		21.587		50.386	71.043	1.00	14.52	SOLV	
HETATM	3042		WAT		33		46.784	3	32.121	33.375		31.79	SOLV	
HETATM	3042		WAT		34		33.359		39.755	49.117	1.00	16.13	SOL\	
HETATM	3043		WAT		35		7.687		37.657	51.568	1.00	27.22	SOL'	
HETATM	3045		WAT !		36		44.238		35.392	33.961		19.67	SOL	
HETATM	3045		WAT		37		10.908		25.384	58.206	1.00	33.51	SOL	
HETATM	3047		WAT		38		36.758		27.243	70.552		39.61	SOL	
HETATM	3048		WAT		39		45.825		46.691	54.654		32.43	SOL	
HETATM	3049		TAW		40		52.489		20.282	52.165	1.00	39.37 27.74	SOL	
HETATM	3050	OH2	WAT	D	42		12.117		17.831	56.596	1.00	14.09	SOL	
HETATM	3051	OH2	WAT	D	43		45.023		26.168	35.172	1.00	35.15	SOL	
HETATM	3052		TAW		44		39.392	-	12.771	62.066 63.814		22.23	SOL	
HETATM	3053	OH2	WAT	D	45		3.930		26.970	71.677	1 00	32.36	SOL	
HETATM	3054		WAT		46		8.454		19.321	73.237	1 00	33.88	SOL	
HETATM	3055	OH2	TAW	D	47		20.280		18.126 39.409	54.873		18.57	SOL	V
HETATM	3056		WAT		48		9.32		41.323	58.048		21.25	SOL	V,
HETATM	3057		TAW		49		50.857 37.13	_	34.599	60.315		61.70	SOL	V
HETATM	3058		WAT		50		14.94		62.815	48.613		42.50	SOL	V
HETATM	3059	OH2	TAW	D	51		6.49		33.164	51.420	1.00	40.65	SOL	
HETATM	3060		WAT		52		24.91		44.799	72.298	1.00	17.10	SOL	
HETATM	3061	OHZ	TAW	ם	53 54		51.15		35.095	48.814	1.00	23.05	SOL	
HETATM	3062	OHZ	WAT	פ	55		16.51		41.750	45.596	1.00	49.25	SOI	
HETATM	3063		TAW TAW		56		10.32		16.413	61.267		46.03	SOI	
HETATM	3064		TAW		57		25.31		47.708	73.062	1.00	22.73	SOI	
HETATM	3065		TAW		58		4.01		33.865	76.173	1.00	44.82	SOI	
HETATM	2067		WAT		59		24.84	6	18.072	36.805	1.00	34.67	SOI	
HETATM HETATM	3068		WAT		60		15.93	0	56.853	61.737	1.00	55.56	SOI SOI	
HETATM	3060	OH2	TAW	D	61		49.66		44.249	48.982	1.00	28.72	SO	
HETATM	3070		WAT		62.		23.23		17.421	53.920	1.00	13.11	SO	
HETATM	3071		WAT		63		39.29		23.035	33.289	1.00	35.79 24.33	SO	
HETAT	3072		WAT		64		19.90		20.169	44.339	1.00	45.10	SO:	
HETAT	1 3073		TAW		65		33.25		21.655	69.560	1.00	44.79	SO	
HETAT	1 3074		WAT		66		27.52		53.947	68.629	1.00	54.01	SO	
HETATI	1 3075	OH2	WAT	D	67		18.77		48.716	52.865 63.401	1.00	27.08		LV
HETAT	4 3076		TAW :		68		10.87		29.062 31.367	28.786	1 00	30.16	\$0	LV
HETATI	4 3077		TAW		69		43.05		44.057		1.00	20.11		LV
HETATI	4 3078	OH2	WAT	D	70		24.81 37.36		38.823		1.00	33.55		LV
HETATI	M 3079		TAW		71		9.03		18.327		1.00	0 31.34		LV
HETATI	M 3080		TAW S	D	72 73		51.79	99	20.829	65.265	1.0	0 28.32	· 50	
HETAT	M 3081	OH	TAW S	ט	74		17.55	56	58.515	57.254	1.0	0 19.27		LV
HETAT	M 3082	OH	TAW S	ט	75		28.43		27.904	79.425		0 27.13		DLV
HETAT	M 3083	OH	TAW S	ם	76		18.93		35.798	35.800		0 94.18		DLV
HETAT	M 3084	ON	WAT	ם	77		34.35		31.251	46.688		0 73.70		OLV
HETAT	M 3085		WAT	ח	78		44.3		51.649			0 30.23		DLV DLV
HETAT	M 3086	OH.	2 WAT	Ď	79		28.5	37	63.478	48.324		0 21.09		DLV
HETAT	м 3087 м 3088		2 WAT		80		6.8		44.113		1.0	0 28.59		OLV
HETAT	M 3089		2 WAT	פֿ	81		42.8	82	18.761			0 31.80		OLV
MEIAI	M 3090		2 WAT	. D	82		36.7		59.078	53.901		0 40.11		OLV
TELAT	M 3091		2 WAT	, D	83		37.5	06	42.495		_	0 51.37		OLV
TEIMI	M 3092		2 WAT	D	84		40.0	54	38.439			0 20.07		OLV
TETAL	M 3093		2 WAT	. פ	85		32.1	70	56.633			0 41.18		OLV
ותובה חמידני	м 3094		Z WAT	ם י	86		24.4	70	53.877			0 33.40		OLV
יאובה.	M 3095		2 WAT	. D	87		48.5		35.663		_	0 44.61		OLV
ימוב	M 3096	OH	2 WAT	. D	88		29.5		57.166			0 45.64		OLV
יתיביי.	M 3097	OH	2 WAT	, D	89		47.8	14	28.707			0 22.26		OLV
HETAI	M 3098	OH	2 WA7	ם ז	90		49.3		52.112		_	00 39.90	S	OLV
HETAT	M 3099	OH OH	2 WAT	כי	91		44.2		43.589		_	0 48.28	S	OLV
HETAT	rm 3100) ОН	2 WA7	םי	92		25.9		30.749		_	0 40.37	S	OLV
HETA	rm 3101	L OH	2 WAT	r D	93		8.6 45.6		41.08			00 21.46	S	OLV
HETA	TM 3102	2 CH	12 WA?	r D	94		45.0	. J 4	41.00				•	
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HETATM	3103	он2	WAT	D	95	29.984	34.886	51.725	1.00 35.75	SOLV
HETATM			WAT		96	13.051	21.934	49.804	1.00 46.73	SOLV
HETATM		_	TAW		97	32.412	65.913	55.822	1.00 43.39	SOLV
HETATM			WAT		98	35.056	43.390	38.348	1.00 34.53	SOLV
HETATM			WAT		99	22.360	47.680	60.688	1.00 19.16	SOLV
HETATM			WAT			50.755	19.722	57.906	1.00 42.45	SOLV
HETATM			WAT			7.875	37.690	74.094	1.00 37.18	solv
HETATM			WAT			24.080	26.796	43.617	1.00 30.72	SOLV
HETATM			WAT			45.206	34.126	75.765	1.00 39.89	SOLV
HETATM			TAW			26.110	54.786	40.685	1.00 29.58	SOLV
HETATM			TAW		105	25 918	39.658	77.647	1.00 44.04	SOLV
HETATM			WAT			41.578	18.191	36.809	1.00 42.22	SOLV
HETATM			TAW			31.945	51.420	73.896	1.00 41.15	SOLV
HETATM			WAT			16.722	60.311	51.182	1.00 48.74	SOLV
		0112	WAT	ח	109	43.604	38.573	78.141	1.00 36.22	SOLV
HETATM		0112	WAT	ח	110	16.063	15.496	69.430	1.00 55.36	SOLV
HETATM HETATM			WAT			21.630	22.785	49.145	1.00 36.52	SOLV
			WAT			27.479	56.647	44.026	1.00 50.82	SOLV
HETATM			TAW			14.739	51.674	61.674	1.00 35.55	SOLV
HETATM		OH2	WAT	ח	114	50.063	26.435	54.358	1.00 50.86	SOLV
HETATM		OH2	TAW	ח	115	43.935	38.427	73.129	1.00 44.21	SOLV
HETATM			TAW			49.707	31.478	57.709	1.00 36.11	SOLV
HETATM HETATM	2125	OHZ	WAT	ח	117	25.032	43.463	55.676	1.00 38.06	SOLV
HETATM	2122	0112	WAT	ח	118	10.618	46.623	59.838	1.00 26.33	SOLV
HETATM HETATM	3127		WAT			48.466	33.382	61.437	1.00 19.82	SOLV
HETATM			WAT			44.157	40.058	37.907	1.00 42.95	SOLV
			WAT			51.267	29.446	52.889	1.00 38.93	SOLV
HETATM HETATM			TAW			16.653	15.228	72'.975	1.00 45.41	SOLV
HETATM			TAW			36.898	45.148	41.936	1.00 27.00	SOLV
HETATM	3132	OH2	WAT	ם	124	49.655	34.591	59.117	1.00 38.97	SOLV
HETATM		OH2	WAT	D	125	12.285	57.594	42.107	1.00 23.56	SOLV
HETATM	3134	OH2	TAW	D	126	28.294	57.644	73.289	1.00 34.79	SOLV
HETATM			WAT			19.138	60.403	61.551	1.00 28.58	SOLV
HETATM			WAT			30.300	33.685	34.047	1.00 27.37	SOLV
HETATM			WAT			40.898	53.983	47.254	1.00 16.30	SOLV
HETATM	3138	OH2	WAT	b	130	43.550	32.160	38.272	1.00 38.86	SOLV
HETATM		0112	WAT	D	131	18.624	13.959	56.194	1.00 37.70	SOLV
HETATM	3140	OH2	WAT	D	132	18.580	12.901	62.894	1.00 27.28	SOLV
HETATM	3141	OH2	WAT	D	133	35.830	30.296	50.621	1.00 42.47	SOLV
HETATM	3142	OH2	TAW	D	134	51.219	35.855	51.878	1.00 20.37	SOLV
HETATM					135	50.428	22.486	49.267	1.00 39.37	SOLV
HETATM					136	51.633	29.369	63.918	1.00 33.99	SOLV
HETATM					137	46.384	43.924	55.825	1.00 22.63	SOLV
HETATM	3146				138	30.356	25.767	28.762	1.00 25.84	SOLV
HETATM		OH2	WAT	Ď	139	25.070	47.842	60.819	1.00 25.00	SOLV
HETATM	3148	2H2	WAT	D	140	47.097	49.394	69.367	1.00 30.58	SOLV
HETATM					141	15.246	37.581	73.398	1.00 36.82	SOLV
HETATM					142	8.341	23.099	64.695	1.00 35.89	SOLV
HETATM					143	30.065	18.220	46.048	1.00 14.26	SOLV
HETATM					144	11.930	46.453	57.606	1.00 36.15	SOLV
BETAIM	24-4	V112	*****			,				

INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/24700

A COLOR OF THE PROPERTY OF THE								
A. CLASSIFICATION OF SUBJECT MATTER								
IPC(7) :C07K 14/00; G01N 55/575 US CL :Please See Extra Sheet.								
According to International Patent Classification (IPC) or to both national classification and IPC								
B. FIELDS SEARCHED								
Minimum documentation searched (classification system followed by classification symbols)								
	Please See Extra Sheet.	,,						
0.3.	rieme See Extra Sneet.							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic o	data base consulted during the international search	name of data base and, where practicable	e. search terms used)					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Extra Sheet.								
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.					
Y	KAKUTA et al. Crystal Structure of the Sulfotransferase Domain of Human Heparan Sulfate N-Deacetylase/N-Sulfotransferase 1. The Journal of Biological Chemistry. 16 April 1999, Volume 274, Number 16, pages 10673-10676, see especially the abstract.							
Y	SUEYOSHI et al. A role of Lys-614 i of human heparan sulfate N-deacetula Letters. 1998, Volume 433, pages abstract.	use/N-sulfotransferase. FEBS	1-19					
X Furth	ner documents are listed in the continuation of Box	C. See patent family annex.						
Special categories of cited documents: "I" later document published after the international filing date or priority								
A* document defining the general state of the art which is not considered to be of particular relevance A* document defining the general state of the art which is not considered the principle or theory underlying the invention								
	Parties described described on or offer the international Slice date. "X" decument of particular relevance; the claimed invention cannot be							
	L° document which may throw doubts on priority claim(s) or which is when the document is taken alone							
clied to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be special reason (as specified)								
considered to involve an inventive step when the document is combined O" document referring to an oral disclosure, use, exhibition or other with one or more other such documents, such combination being obvious to a person skilled in the art								
P document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed								
Date of the actual completion of the international search Date of mailing of the international search report								
25 JAN 2001								
Commission Box PCT	Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Authorized officer ARDIN MARSOHEL ARDIN MARSOHEL							
	o. (703) 50 <i>5</i> -3930	Telephone No. (703) 308-0196						

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/24700

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C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevan	nt passages	Relevant to claim No.
Y	AHMAD et al. WD Repeats of the p48 Subunit of Chic Chromatin Assembly Factor-1 Required for in Vitro Intwith Chicken Histone Deacetylase-2. The Journal of Bi Chemistry. 04 June 1999, Volume 274, Number 23, pages 16653, see especially the abstract.	eraction ological	1-19
Y	JOHN et al. Rhizobium NodB protein involved in nodu signal synthesis is a chitooligosaccharide deacetylase. Pof the National Academy of Sciences, USA. January 1990, pages 625-629, see especially the abstract.	roceedings	1-19
A	US 5,780,594 A (CARTER) 14 July 1998, see the entire	disclosure.	1-19
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INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/24700

A. CLASSIFICATION OF SUBJECT MATTER: US CL :

530/350 and 435/7.9

B. FIELDS SEARCHED
Minimum documentation searched
Classification System: U.S.

580/800,583,560; 485/6,7.2; 514/9

B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

CAS, BIOTECH ABS, MEDLINE, EMBASE, WPI, WEST covering search terms: deacetylase, human, crystal, histone, inhibitor, x-ray, and crystallography

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